## ALIANCA DE QUALIDADE E CONFIANÇA

# GUA 

DE INFORMAÇÕES TECNICAS


## (O) <br> LINHA DIESEL INFORMAÇÕES TÉCNICAS



##  <br> LINHA DIESEL INFORMAÇÕES TÉCNICAS




## (0) $\underset{\text { LINHA DIESEL }}{\text { LNORACOCOSEECCOS }}$



| GM / CHEVROLET |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| APLICACAAO | мотов |  |  |  |
|  | ${ }_{\substack{\text { PICK-UP D-1 } \\ \text { Perkins 4 } 4236}}^{(\rightarrow-1984)}$ | PERKINS Q2OB4236 4236 Premium/Veicula | PICK-UP (TURBO) PERKINS TQ20 B4-236 |  |
| BLoco CILINDROS |  |  |  |  |
| Pstio Mr | E.57200 | E.57240 | E.57280 | E.57280 |
| PsisiomL | P. 1097 | P.1338 | P.164 | P.1172 |
| Ounatidade doscosilindos | 4 | 4 | 4 | 6 |
| 0 dosa cindos, mm | 98,48 | 99,48 | 98,48 | 98,48 |
| Cuse, mm | 127,00 | 127,00 | 127,00 | 127,00 |
| Falap Pistaral Clindo. mm | 0.15 | 0.05 | 0.07 | 0.05 |
| Saliência do Pistão acima ou abaixo do bloco/ camisa, mm | 0.40-0.60 | 0.40-0,60 | $0_{0,35-0.59}$ | ${ }^{(0,0.13-47) .05}$ |
| Sulinidid da camis, mm | 0.71-0.94 | $0.71-0.94$ |  | 0.71-0.94 |
| Anes MH | A.57200 | A.57240 | A.57250 | A.57240 |
| Anes ML | 0.6972 | DC.6914 | L.6.673 | DC.6914 |
| Folse ente pontas 1 cenalea | $0.25-0.41$ | $0.25-0.41$ | $0.25-0.41$ | $0.25-0.41$ |
| Fola ente pontas 2 canalea | 0.41-0.66 | 0.41-0,66 | 0.41-0.66 | 0.41-0.66 |
| Fola ente pontas 3 chandea | 0.41- -0,66 | 0.23 -0.41 | $0.23-0.41$ | 0.23 -0,41 |
| Fola entere ontas 4 c candea | 0.23-0.41 |  |  |  |
| Folsa ente opalas $5^{\prime}$ candea | 0.23 -0,41 |  |  |  |
| Folpa axal 1 Panadea | $0,081-0.109$ | $0,081-0.109$ | $0.081-0,109$ | 0.081 - -0,109 |
| Folga xial 2 cranelea | $0.071-0.102$ | 0.071-0.02 | $0.077-0.102$ | $0.077-0.102$ |
| Folga axal 3 cranelea | $0.077-0.102$ | $0.051-0.04$ | $0.051-0.084$ | $0.051-0.084$ |
| Folga axal 4 cameneta | $0.051-0.084$ |  |  |  |
| Folga axal $5^{\text {comanela }}$ | $0.051-0.04$ |  |  |  |
| Camisa MH | C.57190 | c. 57210 | c.57210 | C.57190(CFrame) C.57240(SfRames) |
| Camis ML | C.1097 | C.1388 | C.1388 | C.1097(CFRame) $\quad$ C.1388 (SFRaras) |
| ktMM | K.57200 | K.57240 | K.57280 |  |
| ktm | k.1097 | K.1338 | k.164 | K-112 (CsFArane) |
| Sogos.nns MH | JM.57200/4 | JM.57200/4 | J1.572004 | JM.572006 |
| Soso Jnins M M | seramogi4 | s89M1097/4 | s89M1097/4 | semalirze |
| Filto do deo | oc324 | oc324 | oc324 | 0 c308 |
| Fitro do contustivel | к223 | ${ }^{12} 2$ | n23 | k23 |
| Filtro do Ar | U2386 L LS44/1 | L23671 U US4411 |  | Le651 elus371 |
|  | Filtro de Cabine / Ar cond. ÁRVORE DE MANIVELAS |  |  |  |  |
|  |  |  |  |  |  |
| Jose Brorina ate Biea MH | 8.57375 | 8.57375 | 8.57375 | ${ }^{8.57376}$ |
| Joper Bomina de Biea ML | ${ }^{88} 8.375 .1$ | ${ }^{88} 8375$ | ${ }^{88} 8.375 .1$ | ${ }^{88} 8.376 .1$ |
| 0 ods menens. mm | 63,470. 63,490 | 63,770-63,990 | 63,470. 63,400 | 63,470. 63,490 |
| Fouga Radal (mm) | $0.032-0.081$ | $0.032-0.081$ | 0.032-0.081 | $0.032-0.081$ |
| Raio de comorotaldad (meneses mm | 3,68-3,96 |  |  |  |
| Joso de Boronina Cental MH | M-57285 | m.57285 | M.57285 | M.57286 |
| Joge of Bromina Cental M $M$ L | BC2285. | 8C-285.J | BC-285.J | BC-288.J |
| 0 dosm minioem (cole) mm | 76,162-76.175 | 76,162-76,175 | 76,162-76.75 | 76,159-76,180 |
| Folag Radal (mm) | 0.059-0.114 | 0.059-0.114 | 0.059-0.114 | $0.0554-0.117$ |
|  | 3,68-3.96 |  |  | 3,68-3.96 |
| 0 Ocoadomeneto mm | 80,416-80.442 | 80,416-80.442 | 80,416-80,442 | 80,416-80.442 |
| Jogodrueas de frasto MH | 1.57032 | 1.57032 | 1.57032 | L.57932 |
| Jogodreasas ef Erasotiol. | AE:032-J | AE-032-J | AE.0.32-J | AE:032-J |
| Folasaxial (m) |  | 0.38 |  |  |
| Beas ML |  |  | Q.57240 (ripeadidider | rode dubificaca) |
| Belas HH |  |  | 8-1-338 Fripeeadidiom | Iode umifecao) |
| Jogobuctara Pede Biea WH | 6.57036 | 6.57036 | 6.57036 | ${ }^{6.57936}$ |
| josobuctar Pede 8 Biea ML | 86-036. | 86-036-1 | 880.086 | 86-036-1 |
|  | $38,895 \cdot 38,20$ | 38,995-38,20 | 38,995-38,20 | 38,995-38,200 |
|  | 67,208-67,221 | 67,208-67,221 | $67,208-67,21$ | 67,208 -67,221 |
| EXXO COMANDO DE VALIUULAS |  |  |  |  |
| Jope Bucham E Exiocmanaio MH | H.5704 | H.5004 | H.57044 | H.57044 |
|  | E.0.044 | Ec.044 | Ec.044 | E.0.044 |
| $00^{\text {coscouses }}{ }^{\circ} 1(\mathrm{~mm})$ | 50,711-50,37 | 50,711 - 50,37 | 50,711 - 50,737 | 50,711 - 50,737 |
| $\mathrm{n}^{2}$ (mm) | ${ }^{50,457.50,483}$ |  | 50,457. 50,483 | 50,477. 50,483 |
| ${ }^{n} 3$ (mm) | 49.949 -49975 |  | 49.949 -49975 | 50,203 -50.22 |
| $\mathrm{n}^{2}(\mathrm{~mm})$ |  |  |  | 49.949 -49,975 |
| Folag atatal (m) | 0,051-0,14 | 0,051-0,14 | 0,051-0,14 | $0.051-0.14$ |
| Fologaxal (mm) | 0.10 -0.41 Max0.51) | 0.51 |  | 0,10-0.41 |
| 0.6 a abamento ota buta | 55,563.55,993 | 55,563.55,593 | 55,663-55,933 | 55,663.55,593 |
| Capa o M Maxal | $235-250$ | $224-249$ |  | $260-270$ |
| Capara biela | 96-103 | 97-104 |  | 95-100 |
| vamane | $110 \cdot 117$ | 111-118 |  | $110 \cdot 115$ |
| Cabeople | ${ }^{131}$ - 138 | ${ }^{131}$ - 138 |  |  |
|  |  |  |  |  |
| Codiogoss samus | va0650024 ve657023 | va0540024 ve0570023 | va0640024 ve0570023 | va0500123 vebroror |
| Frogade Guiar Vainus |  |  |  |  |
| Folacevevinulas |  |  |  | AOM. ESC. |
| Mocratiomm | 0.30 | 0.30 |  | $0.25 \quad 0.48$ |
| Mococ uevenem $m$ | 0.25 | 0.25 |  | $0.20 \quad 0.43$ |
| Orien delagnifio | 1-3-4-2 | 1-3-4-2 |  | 1-5-3-6-2-4 |
| Pambe elanifio | $20^{\text {ORPMS }}$ | $110^{18} \mathrm{PMS}$ |  | $10^{40 \mathrm{AmS}}$ |
| Compinentiosas moses das vilimus soc caraa |  |  |  |  |
| modi inena | 34,04 |  |  | 34.04 |
| carga de | 89,41-10,64 |  |  | 89,41-10,64 |
| mode exema | 35.81 |  |  | 35.81 |
| carga de | 175,70-19,39 |  |  | 175,70-194,39 |
| Abeturateracod tavea |  |  |  |  |
| Trade comperesso | 16,0:1 | 16,0:1 | 15,5:1 | 16,0:1 |
| Altur cbecole | 103,149-103,226 (Min.102,502) |  |  | 94,87-95,63 |
| Alua Bloo | 441,12 - 441,13 | 441,12-441,13 |  | 441.12 -441,33 |



Rua Frei Henrique de Coimbra, 51 - Brasília, Feira de Santana - BA

## (a) 

| HILUX |  |  |
| :---: | :---: | :---: |
| APLICAGÃo | мотов |  |
|  | Toyota Hilux 4WD 2L (2.4litros) | Toyota Hilux 4WD 3L (2.8litros) |
| BLOCO CLINDROS |  |  |
| Pistio Mr |  | E.6301 |
| Pstsiom ML |  | P.9101 |
| Ounatidade dosasilindos | 4 |  |
| 0 odsocilindos, mm | 92,000-92,010 | ${ }^{96,000 \cdot 96,010}$ |
| Cuso, mm | 90,30 | 96.75 |
| Folap Pistarac Clindo. mm |  |  |
| Saliência do Pistão acima ou abaixo do bloco/ camisa, mm | $0,68-0,77$ funta B 1,40-1,50 $0,78-0,87$ (unta D $1,50-1,60$ ) $0,88-0,97$ (junta F $1,60-1,70$ ) <br> $0,8-0,97$ fontaf $1,60-1,70$ | $0,68-0,77$ (unta B $1,40-1,50$ $0.78-0.87$ (unta D $1 ., 50-1,60$ $0,88-0,97$ (unta $1,60-1,70$ |
| Sullendid da amise, mm |  |  |
| Anes wh |  | A.63120 |
| Anes ML |  | T0.734 |
| Folse ente pontas 1 canalea | 0.350 -0.650 max 1,50 |  |
| Folse ente ponses 2 crandea | 0,300 -0.600 max. 1.40 |  |
| Foose ente pontas $3^{\text {chanalea }}$ | 0.200 -0.500 max 1.40 |  |
| Fola a xial 1Pannela | 0.028 -0.077 |  |
| Folga xal 2 'canelea | $0.060-0,105$ |  |
| Folga xal ${ }^{\text {r canalea }}$ | $0.030-0,070$ |  |
| KtMM |  |  |
| KtM |  |  |
| Jogo Juntas WH |  |  |
| Jogo Junas $M$ L |  |  |
| Filto dotioo | 0667 |  |
| Fitrod cocomustrel | кс83 |  |
| Fitiode ${ }^{\text {a }}$ |  |  |
| Filtro de Cabine / Ar cond Afvore de manvelas |  |  |
|  |  |  |
| Joge Bromina de Biea MH |  | 8.63381 |
| Josocromina de Biea ML |  | ${ }^{88} \cdot 381 / \mathrm{T}$ |
| 0 odos menens, mm | $52.988 .53,000$ | 54,988.55,000 |
| Foga Radal (mm) |  | $0.039-0.073$ |
| Raiode comoratindid (mentes mm |  |  |
|  | M.63517 |  |
| $J$ Joge of Biomina Cental M | BC.517.J |  |
| 0 oss minhesem (cool mm | 61,985 -62,000 |  |
| Fogagadad (m) | 0,040-0.084 (max.0.100) |  |
| Raioconoxdedincia (umbless mm |  |  |
| Octabajaneto mm | 66,016-66,033 |  |
| Jopo Amueasas de frasto MH | 1.63550 |  |
| Jopoameasas de Frasato MH | AE.505-J |  |
| Fola axial (m) | 0,040-0,250 max.300 |  |
| Bieas MH |  |  |
| 8 Beasm M |  |  |
|  |  |  |
|  |  |  |
|  |  | 58.013. 58,023 |
| EXXO COMANDO DE VALVULAS |  |  |
| Joso Bucha de bixic Comana |  |  |
|  | 34,969-34,985 |  |
| $\mathrm{n}^{2}$ (mm) | 27,969-27,995 |  |
| Fooga Radal (mm) | $0.022-0.074$ Mxx 0.10 |  |
| Oscadamenento da bucta |  |  |
| Engrenaem Exococomanco |  |  |
| Etro of Auniliar Baaxim |  |  |
| Buche Exo Amilurar Balancim |  |  |
| Toque Reaconenata |  |  |
| Contrapes Vrabequim |  |  |
| Capa do Menal | 103 |  |
| Capand Biea | $54+90^{\circ}+90^{\circ}$ |  |
| Voante | ${ }^{123}$ |  |
| Cabeope | ${ }^{78}$ |  |
|  | ${ }_{90}{ }^{90}$ |  |
|  |  |  |
| Sequerind de pepert do coblepate |  |  |
| Fropa evilus ${ }^{\text {a }}$ |  |  |
|  |  |  |
| Mootrtionm |  |  |
| Moto quenemm |  |  |
| Oraem de enarioio ${ }^{\text {a }}$ |  |  |
|  |  |  |
| Abetura Po Platina |  |  |
| Comprimento das molas das váluulas sob carga |  |  |
| modi itema | 37,00 |  |
| cargade | 30,70.33,90 |  |
| dinensal ive | 46,2amanela 49, 14azu |  |
| Abeatua Eleracot iveda |  |  |




## LINHA DIESEL INFORMAÇÕES TÉCNICAS




| KIA MOTORS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| APLICA¢ĂŎ | мотов |  |  |  |
|  | Besta 2.2 L Huricane | Besta 2.2 L Magna | Besta 2.7L | Besta 3.0 L |
| BLOCO CILINDROS |  |  |  |  |
| Pisto MH | E.211500 | E.211510 |  |  |
| Pisto ML | P.9094 | P.9095 |  |  |
| Ouantidide doss dilindos | ${ }^{4}$ |  |  |  |
| 0 ocsalindos. .mm | 86,00 |  | 93,00 |  |
| Cuse, mm | 94,00 |  | 98,00 |  |
| Folua Pistacollindo. mm | 0.04 |  | 0,045-0.071 |  |
| Saliência do Pistão acima ou abaixo do bloco/ camisa, mm |  |  |  |  |
| Salliniad da camis. mm |  |  |  |  |
| Anes MH | A.211500 | A.21110 | A.21100 (-98) A-21120097->) | A.211500 |
| Anes ML | 0.-7167 | A4-7715 | 0.-7264(-97) $00.4832(87-1)$ | 0.:8824 |
| Folga entre pontas $1^{a}$ canaleta Folga entre pontas $2^{a}$ canaleta |  |  |  |  |
|  |  |  |  |  |
| Folga entre pontas $4^{a}$ canaleta |  |  |  |  |
| Fotere |  |  |  |  |
| Folag axal 2 'canaleta |  |  |  |  |
| Folag axal $3^{\text {chanalea }}$ |  |  |  |  |
|  |  |  |  |  |
| Camisant |  |  |  |  |
| Canis M M |  |  |  |  |
| KtMM |  |  |  |  |
| ${ }_{\text {kt M }}$ L |  |  |  |  |
| Jogo Jinta MH |  |  |  |  |
| Joso Junas M |  |  |  |  |
| Filto ocoleo |  |  | OC274995-980 0-299997-7) |  |
| Fitro coommustivel |  |  | KC13297->) |  |
| Fitro doar |  |  | Lx1088 (95.96) Lx109497->) |  |
| Fituo de Caine /Ac cond. |  |  |  |  |
| ARVORE DE MANVELAS |  |  |  |  |
| Joge Brovina de Eliea MH |  |  | 8.211474 |  |
| Jopes Branina at Biea ML |  |  | 88.474.J |  |
| 0 cossmentes, mm |  |  | 57,00-57,24 |  |
| Folag Radal (mm) |  |  | $0,036 \cdot 0.0 .057$ |  |
| Raid de onocradinial (meneses nm |  |  | 1.832-1.841 |  |
| Jopode Biozina Cental MH | M-211072 |  | M-211680 |  |
| Jopode Branina Centra ML | ${ }^{86-072-J}$ |  | 8C6880.J |  |
| 0 dosos munhesem (cab) mm |  |  | $\begin{array}{ll}1 / 2 / 4 / 5 & 74,995-75,013 \\ 3 & 74,973-75,993\end{array}$ |  |
| Foiga Radal (m) | $0.019-0.078$ |  | $\begin{array}{ll} \begin{array}{ll} \begin{array}{l} 0,045-0,079 \\ 3 \end{array} & 0,067-0,0,101 \end{array} \end{array}$ |  |
| Raio onnoradincia (munbes) mm |  |  | 2.498 -2,518 |  |
| 0 Ocoadigenetionm | 63,997-640018 |  |  |  |
|  | L-21049 |  |  |  |
| Jogantueas de Erasosio ML | AE.099.J$0.04 \cdot 0.28$ |  |  |  |
| Foloa Aad ( m ) |  |  | 0,14-0.39 |  |
| Bialas NH |  |  |  |  |
| Bieas $M$ M |  |  |  |  |
| Jogo bucan Pe de Biea MM | G-2211596 |  |  |  |
| Jopo uchap Pe de Bilie ML | 86.590-1 |  |  |  |
|  | 28,000-28,029 |  |  |  |
|  | 53,997-54,018 |  |  |  |
| EXXO COMANDO DE VALVULAS |  |  |  |  |
| $00^{\text {doscosos } 0^{\circ} 1(m)}$ | 31.96-31,98 |  | $51.910 \cdot 51,40$ |  |
| $n^{\circ 2}$ ( $(\mathrm{mm})$ |  |  | $51.660 \cdot 51,690$ |  |
| $n^{\circ} 3(\mathrm{~mm})$ |  |  | 51,410 -51,40 |  |
| $\mathrm{n}^{8}(\mathrm{~mm})$ |  |  | 51,160-51,190 |  |
| Folog Radial (m) | 0.025 -0.066 |  | $0.006-0.12$ |  |
| Toave Recomenenaco |  |  |  |  |
| Contrees Virabequim |  |  |  |  |
| Capa do Manal | ${ }^{84} \cdot 90$ |  | 78 |  |
|  |  |  | 44 |  |
|  |  |  | ${ }^{90} 0^{50} 105^{\circ}$ |  |
| Capada Bela | 70.75 |  | ${ }^{69}$ |  |
|  |  |  |  |  |
| Vamane | $180 \cdot 190$ |  | ${ }_{206}^{29}+225$ |  |
|  | 30 |  | 60.65 | 30 |
| Cabesale |  |  | $90^{\circ}$-105 | 70 |
|  | $90^{\circ}$. $105^{\circ}$ |  |  | ${ }^{90}$ |
|  |  |  |  | ${ }^{90}$ |
| Sequelicia de peperto oc abecode |  |  |  |  |
| Catioo das simimas | v2211 |  | W22110885 Ve2110186 | Va2110187 ve2110188 |
| Cadiod cas guias deramia |  |  | CC2110052 | 602110065 |
| Folga de Válvulas |  |  | AOM. ESC. |  |
| Motor frio mm | 0.2 |  | $0.30 \quad 0.45$ |  |
| Ordem de Ignição | $2^{\text {APMS }} \quad 1 \cdot 3 \cdot 4-2$ |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| mod intena | 44.80 |  | $48,70-49,70$ |  |
| lagade |  |  |  |  |
|  |  |  |  |  |
| cara de |  |  |  |  |
|  |  |  |  |  |

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#  <br> LINHA DIESEL 

| INTERNATIONAL |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| APLICAqão | Motor |  |  |  |  |  |
|  | PICK-UP D-10 (->1984) Perkins 4.236 |  | pick-up turbo) PERKINS TQ20B4.236 | Perkins 4.248 | Perkins 4.248 | Perkins 4.236 Alcool |
| Bloco CILINDROS |  |  |  |  |  |  |
| Pisto MH | E.57200 | E.57240 | E.57200 | E.57220 | E.57230 |  |
| Pstioli | P.1097 | P.1388 | P.1684 | P.988 | P.147 |  |
| Oanatidade dos cilindus | 4 | 4 | 4 | 4 | 4 | 4 |
| 0 ossalindos, mm | 99,48 | ${ }^{9,48}$ | 98,48 | 101.06 | 101,06 | 101.06 |
| Curs, mm | 127.00 | 127,00 | 127,00 | 127,00 | 127,00 | 127,00 |
| Folas Pistiococilinto, mm | 0,15 | 0.05 | 0.07 | 0.11 | 0.05 |  |
| Saliência do Pistão acima ou abaixo do bloco/ camisa, mm | 0.40-0.60 | 0.40-0,60 | 0,35-0,59 |  |  |  |
| Sallinida da camene, mm | 0.71-0.94 | 0.71-0.94 |  | 0.71-0.89 |  |  |
| Anes MH | A.57200 | A.57240 | A.57250 | A.5720 | 4.57230 |  |
| Anes ML | 0.6.672 | 0.6.9914 | 1.6 .673 | 0.6.694 | L.6.650 |  |
|  | 0.25-0.41 | 0.25-0.41 | 0.25-0.41 | 0.411-0.58 | 0.411-0.58 |  |
| Foba ante pontsas 2 canalea | 0.41-0.66 | 0.41-0.0.6 | 0.41-0.66 | 0.411-0.66 | 0.41-0.66 |  |
| Fola ente eontas 3 cranelea | 0.41-0.66 | 0.23-0.41 | 0.23 -0.41 | 0.411-0.66 | 0.41-0.56 |  |
| Fola ante onots 4 c caneled | 0,23-0.41 |  |  | 0.41-0.56 |  |  |
| Folse ente oponas $5^{\prime}$ canalea | 0,23-0.41 |  |  |  |  |  |
| Folop axal Itanalea | $0.081-0.109$ | $0.081-0.109$ | $0.081-0.109$ | 0,05-0,10 | 0,055-0,10 |  |
| Folga axal 2 'candea | $0.077-0.102$ | $0.077-0.102$ | $0.077-0.102$ | 0.055-0,10 | 0.055-0,10 |  |
| Folga axal ${ }^{\text {Pranandea }}$ | $0.077-0.102$ | $0.051-0.084$ | $0.051-0.084$ | 0,055-0,10 | 0,05-0,10 |  |
| Fobsa xial 4canelea | $0.051-0.084$ |  |  | 0,06-0.11 |  |  |
| Folgaxal 5 'canelea | $0.051-0.084$ |  |  |  |  |  |
| Canis MH | C.57190 | C.57210 | c.57210 | c.57570 | c.57570 |  |
| Canisa ML | C.1097 | C.1388 | C.1388 | c.938 | C.147 |  |
| KtMH | K.57200 | K.57240 | K.57280 | k.57220 | K.57230 |  |
| ktM | k-1097 | ${ }^{\text {k.1388 }}$ | k.1684 | k.988 | K.147 |  |
| ${ }^{5} 500$ Juntas NH | JM.572004 | JM.572004 | JM.57200/4 |  |  |  |
| 5 Sop Juntas ML | s88M10974 | s88M10974 | s89M10974 |  |  |  |
| filto do olee | oc324 |  |  |  |  |  |
| Filto do combustivel |  |  | ne3 |  |  | ${ }^{163}$ |
| Fito OAA |  | Lx236 L USA1/1 |  | L2275 U4S | StMaxion) |  |
| Fitro de Caine/ Ac cond. |  |  |  |  |  |  |
| Arvore de manivelas |  |  |  |  |  |  |
| Jope Biomina de EBea MH | ${ }^{8.57375}$ | ${ }^{8.57375}$ | ${ }^{8.57375}$ | ${ }^{8.57375}$ | ${ }^{8.577375}$ | ${ }^{8.57375}$ |
| Joper Braxine ate Biea ML | 88.375.J | 88.375.J | 88.375.J | 88.375.J | 88.375.J | 88.375.J |
| 0 odos menenes, mm | 63,770 -63,400 | 63,470 -63,400 | $63,470 \cdot 63,490$ | 63,470 -63,400 | $63,770 \cdot 63,490$ | 63,470 -63,400 |
| Foug Ratal (mm) | $0.032-$-0,081 | $0.032-$-0.081 | $0.032-0.081$ | $0.032-0.081$ | 0.032-0.081 | 0.032 - 0.081 |
| Raid de conorotindid (meneses mm | 3.68-3.96 |  |  |  |  |  |
|  | M.57285 | M-57285 | M.57285 | M.57285 | M.57285 | M.57285 |
| Joso of Bamina Cental ML | 86-285.J | $88 \cdot 285.1$ | 80-285.J | 8 C -285.J | 8 C -285-1 | 8 C -285-J |
| 0 odes nunbeesm (cal) mm | 76.162 -76.175 | 76,162-76.175 | 76.162 -76.175 | 76,162-76,175 | $76.162 \cdot 76.175$ | 76,162-76.175 |
| Fooge Ratal (mm) | $0.059 \cdot 0.114$ | 0.05900 .114 | $0.059-0.114$ | $0.0590 \cdot 0.114$ | $0.059-0.114$ | $0.059-0.114$ |
|  | 3.68-3.96 |  |  |  |  |  |
| Ocoalgignenom mm | 80,416-80.442 | 80,416-80,442 | 80,416-80,442 | 80,416-80.442 | 80,416-80.442 | 80.416 - 80.442 |
|  | 1.57032 | L.57032 | L.57932 | L.57032 | L.57032 | L.57032 |
|  | AE-032-J | AE-032-J | AE:032-J | AE:032-J | AE:032-J | AE.032-J |
| Folap Axal (mm) |  | 0,38 |  |  |  |  |
| Beas WH |  |  |  |  |  |  |
| Biesa M |  |  |  |  |  |  |
| Jopobucha Pe ce Biea MH | 6.57036 | 6.57036 | 6.57036 | 6.57036 | 6.57036 | ${ }^{6.57036}$ |
| Jogo bucha Pe de Biea ML | 86-036-, | 88:038-, | 86-086-J | 88.086 - | 86.086-1 | ${ }^{86.036-1}$ |
|  | 38,895-38,20 | 38,895-38,20 | 38,895-38,20 | ${ }^{38,985}$-38,20 | 38,995-38,200 | 38,955-38,20 |
| Ocoaldamenolo di Braxina mm | 67,208-67,221 | $67,208-67,221$ | 67,208-67,221 | 67,208-67,21 | 67,208-67,221 | 67,208-67,21 |
| EXXO COMANDO DE VALVLAS |  |  |  |  |  |  |
| Joge Bucha ad Eivo Comando NH | ${ }^{4.57044}$ | H.57044 | H.5044 | H.5044 | H.5004 | H.5044 |
| Jope Buxa as Exic Comando ML | Ec.044 | Ec.044 | Ec.044 | Ec.044 | Ec.044 | Ec.044 |
|  | 50,711 - 50,737 | 50,711-50,37 | 50,711-50,37 | 50,711 - 50,737 | 50,711-50,37 | 50.711 - 50,737 |
| $0^{2(m)}$ | 50,457.50,483 |  | 50,457. 50,483 | 50,457. 50,483 | 50,477.50,483 | 50,457-50,433 |
| 103(mm) | 49,949-49,975 |  | 49,949-49,975 | 49,949 -49,975 | 49.949 - 49.975 | 49,499-49,975 |
| Folof Ratal (mm) | 0,051-0.14 | 0.051-0,14 | $0.051-0.14$ |  |  |  |
| Folgaxal (mm) | 0.10-0.41 Mex.0.51) | 0.51 |  | 0.10-0.41 | 0.10-0.41 | 0.10-0.41 |
| Ocosadignento da buta | 55,663-55.933 | $55.563 \cdot 55.933$ | 55,663-55,933 | 55.563 -55.593 | 55,563.55.933 | 55.563 -55,933 |
| Toxue Reacomenatao |  |  |  |  |  |  |
| capa omanal | $235-250$ | $224-249$ |  | $235-249$ | $235-249$ | $230-245$ |
| Capa a Biele | 96-103 | 97-104 |  | 97-104 | 97-104 | 95-102 |
| vame | $110 \cdot 117$ | ${ }^{111.118}$ |  | 104-410 | 104-410 | 100-110 |
| cabepate | ${ }^{131-138}$ | ${ }^{131-138}$ |  | 131-138 | ${ }^{131}$ - 138 | ${ }^{124-138}$ |
| Suvenda de eperato cocabesale |  |  |  |  |  |  |
| Caifocas ammus | va0570024 vebroor | Va0050024 vebiroer | va0650024 ve050023 |  | va0540024 ve0570023 | va057024 Ve657023 |
| Moot fiomm | 0,30 | 0.30 |  | 0.30 | 0.30 |  |
| Mocercaene mm | 0.25 | 0.25 |  | 0.25 | 0.25 |  |
| Ordem de annifico | 1-3.4-2 | 1-3.4-2 |  | 1-3.4-2 | 1-3.4-2 |  |
| Pantode alnçio | ${ }^{20} \mathrm{PAMS}$ | ${ }^{11}$ APMS |  |  |  |  |
|  |  |  |  |  |  |  |
| mda inters | 34,04 |  | 39.70 (as) | 34,04 Neic) | 39,70 (ax) | 34.04 Neic) |
| carga de | ${ }^{89,41-103,64}$ |  | $65.08 \cdot 74.15 \mathrm{~A}, \mathrm{~F}$ ) | 89.41 -10364 Nece) | $65.80-74.15 \mathrm{Aax}) \quad 89$ | 1-10.64 ( Neic) |
| mola externa | 35.81 |  | 45.21 (ax) | 35.81 ( Neic) | 45.21 (ax) | 35.81 ( vec) |
| carga de | 175,70-199,39 |  | 169.03-191.27 (as) | (175,70-194,39 Neic) | 189,03-191.27 (a) | 0-194,39 (Nec) |
|  |  |  |  |  |  |  |
| Tratecompersso | 16.0:1 | 16.0:1 | 15.5:1 | 16.0: 1 | 16.0:1 |  |
| Atra cabeople | 103,149-103,226 (Min. 102,502) |  |  | $103.19 \pm 0.38$ M Mn. 102.51 | $103.19 \pm 0.38$ Mn.102.51) |  |
| Alua Bloo | 441.12 - 441, 13 | 441,12-441,13 |  | 441,12-441,13 | 441,12 -441,13 |  |


| INTERNATIONAL |  |  |  |
| :---: | :---: | :---: | :---: |
| APLICACAAO | MOTOR |  |  |
|  | Perkns 6.354.2TJ | CAMINHARO D11000/D $13000 / 100000 / 221000 / 1$ Perkins 2002086.354 | Perkins T6354.4 TQ20B6.354.4 |
| BLOCO CILINDROS |  |  |  |
| Pistaion |  | E.57280 | E.57250 |
| PrisiomL | P.1134 | P.1172 | P.1670 |
| 0 Ounitidide dos silindos | 6 | 6 | 6 |
| 0 oss cilludos, mm | ${ }^{98,48}$ | ${ }^{98,48}$ | 98,48 |
| Curse, mm | 127.00 | 127,00 | 127,00 |
| Folap Pistaral Cilido. mm | 0.07 | 0.05 | 0.06 |
| Saliência do Pistão acima ou abaixo do bloco/ camisa, mm | 0.000-0,18 | (9, 013 - (1) 0.05 | 0.000-0,18 |
| Sulinciad da canis. mm | (10,002-100.02 | 0.71-0.94 | (0).002-(1)0.02 |
| Anes NH | 4.57200 | A.5240 | A.57250 |
| Anes ML | 00.6972 | 0.6.694 | 10.6733 |
| Folge ente pontas ${ }^{\text {canandea }}$ |  | 0.25 -0.41 | $0.25 \cdot 0.45$ |
| Folge ente pontas $2^{\text {c candelea }}$ |  | 0.41-0.06 | 0.25 -0,50 |
| Folge ente ponta $3^{\text {chenandea }}$ |  | 0.23-0.41 | $0.25-0,40$ |
| Fooga exal 1 canaleta |  | $0.081-0.109$ | 0.15 |
| Fooga exial 2 'canelea |  | $0.071-0,102$ | 0.082 |
| Folog axal $3^{\text {comaneta }}$ |  | $0.051-0.084$ | 0.082 |
|  |  |  |  |
| Canisa ML |  |  |  |
| KtMM |  | K.57790CFFrane) K.57295 (SFrane) |  |
| KtML |  | K.1172 (CSFRFange) | k -6700 (SFamae) |
| Jopo Junasa WH | JM.572096 |  |  |
| Jopo Juntas ML | sermilize |  |  |
| Filto dodeo | oc3s8 |  |  |
| Fituo cocombustivel | n22 |  |  |
| Filto 0 A A |  |  |  |
| Filto de Caine/ Ac cond. |  |  |  |
| ARVORE DE MANVELAS |  |  |  |
|  | ${ }^{8.57736}$ |  |  |
| Joper Bominina de Beal ML | ${ }^{88} 8376$ |  |  |
| 0 ods menenes, mm | 63,470-63,900 |  |  |
| Folop Ratal (mm) | 0,032-0.081 |  |  |
| Raiode comorathina (mentesesm $m$ | 3.68-3.96 |  |  |
| Jogo de Bromina Cental MH | M-57287 | M-57286 |  |
|  | BC2887, $^{\text {a }}$ | 86-286-1 |  |
| 0 odos minhees (calo nm | $\underset{\substack{76,162659.175 \\ 0.0 .59 \\ 0.0,114}}{ }$ | 76,159, 76,180 |  |
| Fola Ratal ( mm ) |  | $0.054-0.117$ |  |
| Raicoonexdidicisi (munbes) mm | 3,68-3.96 |  |  |
| 0 Ocoaldigneto mm | 80,416-80.442 |  |  |
| Jogadereasas de frosoto MH | 1.57032 |  |  |
| Joge arueas de Erasato ML | AE-032-J |  |  |
|  | 6.57036 |  |  |
| Jopo bucha Pe Pde Biea ML | ${ }^{86} \cdot 036.1$ |  |  |
| 0 Ocoaldanenotsidda Buxamm | ${ }^{38,985-38.290}$ |  |  |
|  |  |  |  |
|  |  |  |  |  |  |
| Jope bucha de Exicocomano MH | H-57044 |  |  |
| Joposucha de Exio Comand ML | E.044 |  |  |
| 0 ossocolos $\mathrm{n}^{1} 1(\mathrm{~mm})$ | 50,71- 50,737 |  |  |
| $\mathrm{n}^{2}$ (m) | 50,457-50.483 |  |  |
| ${ }^{13} 3(\mathrm{~mm})$ | 50,203.50,229 |  |  |
| $\mathrm{n}^{2}(\mathrm{~mm})$ | 49.949 -49,975 |  |  |
| Folag Ratal (mm) | $0.051-0,14$ |  |  |
|  | 0,10-0.41 |  |  |
| 0 Oca aldamento da buta | ${ }_{55,563-55.933}$ |  |  |
| Trave Recomeneado $\square_{\text {a }}$ |  |  |  |
| Capa do Manal | $260 \cdot 270$ |  |  |
| Carad ABiea | $95 \cdot 100$ |  |  |
| valane | $110 \cdot 115$ |  |  |
| Cabecole | ${ }^{131}$ - 138 Par. $122^{2} \quad 28-32$ Par. $5166^{\circ}$ |  |  |
|  |  |  |  |
| Corigo osas andus | va0570123 Ve6570122 | va0570123 VE0570122 | va0570123 VE0570122 |
| Folad de Suial Namulus |  |  |  |
| Fologe devinumas | ${ }^{\text {AOM. }}$ ESC. |  |  |
| Motat fiomm | $0.25 \quad 0.48$ |  |  |
| Moter wenene mm | $0.20 \quad 0.43$ |  |  |
| Orien de eninisio | 1-5-3-6-2-4 |  |  |
| Partode anicicio | $2{ }^{\text {20 ARMS }}$ | ${ }^{16}$ APMS | ${ }^{22} 8$ PMS |
| $A$ Abetrua co Platina |  |  |  |
| Comprimento das molas das válvulas sob carga |  |  |  |
| mod intera | 34,04 |  |  |
| cara de | ${ }^{89,41-10,64}$ |  |  |
| mode exema | 35.81 |  |  |
| carga de | 175,70 -194,39 |  |  |
| Abeturateracodidvea |  |  |  |
| Macria lenta |  |  |  |
| SAA |  |  |  |
| ${ }_{\text {char }}$ |  |  |  |
| Voume Canara Cabecoue |  |  |  |
| Trax eceannessa | 15.5: 1 | 16.0:1 |  |
| Alua cabepite |  | 94,87-95,63 |  |
| Alua Bloo |  | 441.12 -441,33 |  |



## LINHA DIESEL INFORMAÇÕES TÉCNICAS

| INTERNATIONAL |  |  |  |
| :---: | :---: | :---: | :---: |
| APLICACĂO | MOTOR |  |  |
|  | CAMINHÃO D-60 / B-70 <br> Perkins 6.357/6.357.2 | Perkins 6.340 |  |
| BLOCO CILINDROS |  |  |  |
| Psisio MH | E.57600 |  | E.57700 |
| Pstiom ML | P.933 |  | P.934 |
| Ouantidede dosasilindos | 6 | 6 | 6 |
| 0 osos cilindos, mm | 104,14 | 101,60 | 104.14 |
| Cuss, mm | 114,30 | 14,30 | 114,30 |
| Fobap Pstaid Clindo, mm | 0.21 |  | 0.11 |
| Saliência do Pistão acima ou abaixo do bloco/ camisa, mm | $0.20-0.36$ |  | 0.05 -0,25 |
| Sulindidatamise, mm | (7).0.5-(1)0.05 |  | (1).0.076-(1).0.76 |
| Anes Mr | A.57600 |  | A.57720 |
| Anes ML | DAS.6028 |  | D06.6058 |
| Faga ente ponts 1. canalta | $0.51-0.63$ |  | 0.30- 0.50 |
| Faja ante ponses 2 canalea | 0.51-0.0.3 |  | 0.30- 0.50 |
| Fodge entepontas 3 canaleta | 0,300 0.43 |  | 0.41-0.86 |
| Foba entepontas 4 canaleta | $0.30 \cdot 0.43$ |  | 0,300-0,48 |
| Folga xial 1 'canalea | 0.055 -0,10 |  | 0.05-0,10 |
| Folga xial 2 cranelea | 0.05-0,10 |  | 0,05 -0,10 |
| Fopga aial 3 cranalea | $0.066-0.11$ |  | $0.055 \cdot 0.10$ |
| Foba a xial 4c canalea | 0.06-0.11 |  | 0,05 -0,10 |
| Canisant | C. 57610 |  | C. 57710 |
| Camis ML | c.933 |  | c. 334 |
| Ktwh | k.57600 |  | k.57700 |
| KtmL | k.933 |  | k.334 |
| Jogo Juntas WH | ju.5760/6 |  | M.577006 |
| Jopo untas ML | левм9336 |  | з8яM3446 |
| Filto doteo | 0x2000 |  | 0 c308 |
| Fitro co combustivel | k23 |  |  |
| Filto doar | X243/1(Bac.Eire) LX265/1 e LXS37/1(GM e CBT) LX973(Ford e VW) LX236/1 e LXS41/1(Maxion) |  | U26517 elxs3711 |
| Filto de Catine/ $A$ comd. |  |  |  |
| Arvore de manvelas |  |  |  |
|  | ${ }^{8.57036}$ |  | ${ }^{8.57750}$ |
| Joperiorinin ceielia ML | 88.036.- | 88.036., | ${ }^{88-150-5}$ |
| 0 dosmmentes, mm | $62.396 \cdot 62.944$ |  | $62.336 \cdot 62.999$ |
| Folag Radal (mm) | 0.044 -0.104 |  | 0.044 -0,104 |
| Raiode comaxdidina (mentesesm $m$ |  | 4,76-4,80 |  |
| Jsoode Biomina Cental MH | M57037 | 8C.037. | M.57153 |
| Jopode Biomina Centra ML | 8с:037.J |  | 8C.153.J |
| 0 odos mumbees (calo mm | 76,175-76,187 |  | 76,175-76,187 |
| Foug Ratal (mm) | $0.051-0.114$ |  | $0.035-0,098$ |
|  |  | 4,76-4,80 |  |
| Osoaldignentomm | 80,582-80,007 |  | 80,582-80,007 |
| Jupodrueasas de frasto MH | 1.57009 |  | 1.57015 |
| Jogearneasas de ErosatiomL | AEEOOP.J | AE:OO2-J | AEEOT5.J |
| Folagaxal (m) |  |  |  |
| Jugo buchap Pode Bied $M$ M | 6.57002 |  | 6.57002 |
| Jopobuta Pe Pde Blial ML | 86:002.J | 86-002.J | 86-002.J |
|  | 40,183-40,221 |  | 40,183-40,221 |
|  | 66.667-66.688 |  | 66,667-66,688 |
| EXXO COMANDO DE VALVULAS |  |  |  |
|  | H.57027 | H.57027 | H.57027 |
| $J$ Jose Buita de ofix Comand ML | E.0.27 | EC.027. ${ }^{\text {a }}$ | E.0.27 |
|  | 55,791-55,004 | 55,791-55,904 | 55,791-55,04 |
| $\mathrm{n}^{\circ} 2(\mathrm{~mm})$ | 55,520-5.550 | ${ }_{5,5.520-55,550}$ | 55,520. 55.550 |
| $n^{13}(\mathrm{~mm})$ | 55.270-55.300 | 55.270. 55.300 | 55,720. 55,300 |
| ${ }^{2} 4(\mathrm{~mm})$ | 55,020-5.0.40 | 55.020-55.400 | 55,020. 55,40 |
| Foaga Ratal (mm) | $0.0550 \cdot 0.113$ |  | $0.050 \cdot 0.113$ |
| Folagaxal (m) | $0.10 \cdot 0.41$ |  | $0.10 \cdot 0.41$ |
| - Soablomenenolot bucta | 59,124-59,136 |  | 59,124-59,136 |
| Bunne Exo anulier MH |  | 6.57102 |  |
| Buchationaxiliar Mr |  |  |  |
| Toque Recomenerata |  |  |  |
| Cana om Manal | 135.145 | $133-145$ | 190. 197 (Pa:9/167) |
| Capad $\mathrm{B}_{\text {bida }}$ |  | 135.145 | 109. 122 Para/96) |
| Vamane | 102-110 | 104-410 | 100-108 Para.12\%) |
| Capa co comane / Contrapes |  |  |  |
| Cabeocole | 75.80 | 75.83 | 95.102 Par.7169) $\quad 176-183$ Para916) |
|  |  |  |  |
| Catiogosas lamus | va0570033 vebsious |  | va057011 ve057012 |
| Folage divia VVinlus |  |  |  |
| Folage vianles | AOM. ESC. |  | nom. EsC. |
| Motationm |  |  | 0,30 0,38 |
| Motor wenene mm | $0.25 \quad 0.30$ |  | $0.25 \quad 0.30$ |
| Oriden delencricio | 1-5-3.6-2-4 |  | 1-5-3-6-2-4 |
| Patuede enicifo | ${ }^{219} \mathrm{P}$ PMS |  | Consultar manal |
|  |  |  |  |
| modi hena | ${ }^{39,99} \quad 28.96$ |  | 27,48 39,45 |
| carga de | ${ }^{65,08-74,15} \quad 141,59-160,89$ |  | ${ }^{320,550-354,10} \quad 137,60 \cdot 152,20$ |
| mode etena | $45.21 \quad 34,49$ |  | $45.21 \quad 34.50$ |
| carga de | 169.03 - 19,27 ${ }^{\text {304,70-342,96 }}$ |  | $172.50-195.20$ - $311.00 \cdot 350.00$ |
| Abetura Elerocod divea |  |  |  |
| Taxat commpesso | 17,0:1 |  | 15,5:1 |
| Altua cabecale | ${ }^{82,55-81,53}$ |  | 116,00-117,00 |
| Atra Blas | 42, 07-42,30 |  | 421,069-421,297 |


| INTERNATIONAL |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Aplicação | мотов |  |  |  |
|  | S-4TEuro | Euro 1 | Gm Pick-Up D-20 | GM Pick-Up D-20 S4T / S4T Plus |
| BLOCOCILINDOROS |  |  |  |  |
| Pistio MH | E.57450 | E.5740 | E.57300 | E.57320 |
| Pistio ML | P.2259 | P.2258 | P.2142 | P. 1949 |
| Olantideded dosalindos | 4 |  |  |  |
| 0 dosalindos, mm | 101,06 |  | 100,00 | 100,00 |
| Cuss, mm | 127,00 |  | 127,00 | 127.00 |
| Folop Pistaoc Clindo. mm | 0.11 | 0.13 | 0.04 | 0.04 |
| Saliência do Pistão acima ou abaixo do bloco/ camisa, mm | 0,493-0.889 emereleaca a obluco) |  |  |  |
| Sulinida da cames. mm | (90,02--(1), 0102 |  |  |  |
| Ames wh | A.57405 |  | A.57300 | A.5730 |
| Anes ML | 1c.7964 |  | L6.6970 | L6.6970 |
| Foda ente ponts 1 cenalea | 0,35-0.55 |  |  |  |
| Foupe ente pontse 2 canalea | ${ }_{0}^{0.30-0.55}$ |  |  |  |
|  | 0,38-0.0.63 |  |  |  |
| Folagaxal Itanelea | 0.112 |  |  |  |
| Folga axal 2 caneeta | . 105 |  |  |  |
| Folga axal ${ }^{\text {ramaneta }}$ | $0.030-0.062$ |  |  |  |
| Camisa MH | C.53300 |  |  |  |
| Camisa ML | C. 1949 |  |  |  |
| Jugo Juntas WH | נим57300/4 |  |  |  |
| Jogo Junas M M | s8\%M2122/4 |  |  |  |
| Fitro do deo | 0.324 |  |  |  |
| Filto ococamustrel | KC18 KC24 |  |  |  |
| Filto 0 A ${ }^{\text {d }}$ |  |  |  |  |
| Filto de Cabine/A cond. |  |  |  |  |
| ARVORE DE MANIVELAS |  |  |  |  |
| Joperimininde Biea MH | ${ }^{8.57375}$ |  |  | 7486 |
| Joporicraninate Biea ML | ${ }^{88.375 .1}$ |  |  | ${ }^{88-486-1}$ |
| 0 dosm menese, mm | $63,770-63,490$ |  |  | 63,770 - 63,995 |
| Fogag Rada (mm) | 0.0320-0.0810 |  |  | 0.0270 -0.890 |
| Faiodecomaxdinida (meneses mm | 3.68-3.96 |  |  |  |
| Jopode Bamina Contal MH | M.57295. ${ }^{\text {d }}$ |  |  | M-57285- ${ }^{\text {a }}$ |
| Jsoode Blominin Cental ML | ${ }^{86}$ C235.1 |  |  | ${ }^{86} 2835.1$ |
| 0 dos mumbees (colo) mm | 76,162-76,175 |  |  | 76,162-76,175 |
| Folag Radal (mm) | 0.0.500 -0.140 |  |  | $0.0 .590-0.1140$ |
|  | 3,68-3,96 |  |  |  |
| 0 Osoabjomentomm | 80,416-80,442 |  |  |  |
| JopoArneas de frasto MH | 1.57032 |  |  |  |
| Jogodreasas de Erosotio ML | AE.032-J |  |  |  |
| Fola $\times$ axal (m) | 0,05-0,38 |  |  |  |
| Bieas WH |  |  |  |  |
| Bieas ML |  |  |  |  |
|  | 6.57036 |  |  | 6.57509 Paala) 6.57595 (riap) |
| Jopo buchar Pede 8 BeamL | ${ }^{86}$-036-U |  |  |  |
|  | 38,995-38,920 |  |  | $42.068-42.094$ |
|  | 67,208 -67,221 |  |  | 67,208-67,221 |
| EXXO COMANDO De Valivulas |  |  |  |  |
| Jjop Bucha do Elio Comano M |  |  |  |  |
|  |  |  |  |  |
| $00^{0} 50 \operatorname{coses}^{19} 1(\mathrm{~mm})$ | 50,711-50,737 |  |  |  |
| $\mathrm{n}^{2}$ ( mm ) | $5^{50,545-50,483}$ |  |  |  |
| $n^{\circ} 3(\mathrm{~mm})$ | 49.949 -49975 |  |  |  |
| Foja Radal (mm) | 0.0510 -0,4400 |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Toque Reanematab |  |  |  |  |
| Contraesov viruevim |  |  |  |  |
| Cape do Manal |  |  |  |  |
| Capamaliea | $95 \cdot 111$ |  |  |  |
| Voante | $102-122$ |  |  |  |
| Cabepole | ${ }^{30}$ |  |  |  |
|  | ${ }_{1280}^{120}$ |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Codiodsas ramus | ve0570122 va0570657 |  |  |  |
| Folage vevaruas | ADM. ESC. |  |  |  |
| Motatriomm | $0.30 \quad 0.30$ |  |  |  |
| Moter wenene mm | $0.25 \quad 0.25$ |  |  |  |
| Orien de elanifio | 1-3-4-2 |  |  |  |
| Patude elaniza |  |  |  |  |
| Abetrua o Palatado |  |  |  |  |
| Comprimento das molas das válvulas sob carga |  |  |  |  |
| moai inema | 34.04 |  |  |  |
| carag de | ${ }^{8.491-10,64}$ |  |  |  |
| modeexema | 35.81 |  |  |  |
| caras de | 175,70-194,39 |  |  |  |
| Abertura Eletrodo da Vela |  |  |  |  |
| Taxa de compressao |  |  |  |  |
| Mactive lita |  |  |  |  |
|  | 441.12 -441,33 |  |  |  |
| atura cansa | 102806-103.569 (min. 102.502$)$ |  |  |  |
| Alura cabeocte |  |  |  |  |



## LINHA DIESEL INFORMAÇÕES TÉCNICAS




| KIA MOTORS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| APLICA¢ĂŎ | мотов |  |  |  |
|  | Besta 2.2 L Huricane | Besta 2.2 L Magna | Besta 2.7L | Besta 3.0 L |
| BLOCO CILINDROS |  |  |  |  |
| Pisto MH | E.211500 | E.211510 |  |  |
| Pisto ML | P.9094 | P.9095 |  |  |
| Ouantidide doss dilindos | ${ }^{4}$ |  |  |  |
| 0 ocsalindos. .mm | 86,00 |  | 93,00 |  |
| Cuse, mm | 94,00 |  | 98,00 |  |
| Folua Pistacollindo. mm | 0.04 |  | 0,045-0.071 |  |
| Saliência do Pistão acima ou abaixo do bloco/ camisa, mm |  |  |  |  |
| Salliniad da camis. mm |  |  |  |  |
| Anes MH | A.211500 | A.21110 | A.21100 (-98) A-21120097->) | A.211500 |
| Anes ML | 0.-7167 | A4-7715 | 0.-7264(-97) $00.4832(87-1)$ | 0.:8824 |
| Folga entre pontas $1^{a}$ canaleta Folga entre pontas $2^{a}$ canaleta |  |  |  |  |
|  |  |  |  |  |
| Folga entre pontas $4^{a}$ canaleta |  |  |  |  |
| Fotere |  |  |  |  |
| Folag axal 2 'canaleta |  |  |  |  |
| Folag axal $3^{\text {chanalea }}$ |  |  |  |  |
|  |  |  |  |  |
| Camisant |  |  |  |  |
| Canis M M |  |  |  |  |
| KtMM |  |  |  |  |
| ${ }_{\text {kt M }}$ L |  |  |  |  |
| Jogo Jinta MH |  |  |  |  |
| Joso Junas M |  |  |  |  |
| Filto ocoleo |  |  | OC274995-980 0-299997-7) |  |
| Fitro coommustivel |  |  | KC13297->) |  |
| Fitro doar |  |  | Lx1088 (95.96) Lx109497->) |  |
| Fituo de Caine /Ac cond. |  |  |  |  |
| ARVORE DE MANVELAS |  |  |  |  |
| Joge Brovina de Eliea MH |  |  | 8.211474 |  |
| Jopes Branina at Biea ML |  |  | 88.474.J |  |
| 0 cossmentes, mm |  |  | 57,00-57,24 |  |
| Folag Radal (mm) |  |  | $0,036 \cdot 0.0 .057$ |  |
| Raid de onocradinial (meneses nm |  |  | 1.832-1.841 |  |
| Jopode Biozina Cental MH | M-211072 |  | M-211680 |  |
| Jopode Branina Centra ML | ${ }^{86-072-J}$ |  | 8C6880.J |  |
| 0 dosos munhesem (cab) mm |  |  | $\begin{array}{ll}1 / 2 / 4 / 5 & 74,995-75,013 \\ 3 & 74,973-75,993\end{array}$ |  |
| Foiga Radal (m) | $0.019-0.078$ |  | $\begin{array}{ll} \begin{array}{ll} \begin{array}{l} 0,045-0,079 \\ 3 \end{array} & 0,067-0,0,101 \end{array} \end{array}$ |  |
| Raio onnoradincia (munbes) mm |  |  | 2.498 -2,518 |  |
| 0 Ocoadigenetionm | 63,997-640018 |  |  |  |
|  | L-21049 |  |  |  |
| Jogantueas de Erasosio ML | AE.099.J$0.04 \cdot 0.28$ |  |  |  |
| Foloa Aad ( m ) |  |  | 0,14-0.39 |  |
| Bialas NH |  |  |  |  |
| Bieas $M$ M |  |  |  |  |
| Jogo bucan Pe de Biea MM | G-2211596 |  |  |  |
| Jopo uchap Pe de Bilie ML | 86.590-1 |  |  |  |
|  | 28,000-28,029 |  |  |  |
|  | 53,997-54,018 |  |  |  |
| EXXO COMANDO DE VALVULAS |  |  |  |  |
| $00^{\text {doscosos } 0^{\circ} 1(m)}$ | 31.96-31,98 |  | $51.910 \cdot 51,40$ |  |
| $n^{\circ 2}$ ( $(\mathrm{mm})$ |  |  | $51.660 \cdot 51,690$ |  |
| $n^{\circ} 3(\mathrm{~mm})$ |  |  | 51,410 -51,40 |  |
| $\mathrm{n}^{8}(\mathrm{~mm})$ |  |  | 51,160-51,190 |  |
| Folog Radial (m) | 0.025 -0.066 |  | $0.006-0.12$ |  |
| Toave Recomenenaco |  |  |  |  |
| Contrees Virabequim |  |  |  |  |
| Capa do Manal | ${ }^{84} \cdot 90$ |  | 78 |  |
|  |  |  | 44 |  |
|  |  |  | ${ }^{90} 0^{50} 105^{\circ}$ |  |
| Capada Bela | 70.75 |  | ${ }^{69}$ |  |
|  |  |  |  |  |
| Vamane | $180 \cdot 190$ |  | ${ }_{206}^{29}+225$ |  |
|  | 30 |  | 60.65 | 30 |
| Cabesale |  |  | $90^{\circ}$-105 | 70 |
|  | $90^{\circ}$. $105^{\circ}$ |  |  | ${ }^{90}$ |
|  |  |  |  | ${ }^{90}$ |
| Sequelicia de peperto oc abecode |  |  |  |  |
| Catioo das simimas | v2211 |  | W22110885 Ve2110186 | Va2110187 ve2110188 |
| Cadiod cas guias deramia |  |  | CC2110052 | 602110065 |
| Folga de Válvulas |  |  | AOM. ESC. |  |
| Motor frio mm | 0.2 |  | $0.30 \quad 0.45$ |  |
| Ordem de Ignição | $2^{\text {APMS }} \quad 1 \cdot 3 \cdot 4-2$ |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| mod intena | 44.80 |  | $48,70-49,70$ |  |
| lagade |  |  |  |  |
|  |  |  |  |  |
| cara de |  |  |  |  |
|  |  |  |  |  |

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##  <br> LINHA DIESEL INFORMAÇÕES TÉCNICAS




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##  INFORMAÇÕES TÉCNICAS


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# LINHA DIESEL INFORMAÇÖES TÉCNCAS 

| MWM |  |  |  |
| :---: | :---: | :---: | :---: |
| APLICAÇ̧̆O | MOTOR |  |  |
|  | 4.10/6.10 Asp. | Motor 4.10 / /4.10 TCA /6.10 TCA | 6.10 Turbo /6.10 TCA |
| bioco cilinoros |  |  |  |
| Psisio MH | E.13910 | E.13380 | E.13201 E-13940 |
| Pstioiol | P.2387 | P-2104 | P-2195-19455-9151 |
| Ounatidade doss silindos | $4 / 6$ | 4/6 | 6 |
| Odos cilindos, mm | 103,00 |  |  |
| Cars, mm | 129,00 |  |  |
| Folosp Pistad Clindo., mm |  |  |  |
| Saliência do Pistão acima ou abaixo do bloco/ camisa, mm | $0.23-0.59$ emenelacria aobluco) |  |  |
| Sallenididacamise, mm |  |  |  |
| Ames wh | A.13900 |  |  |
| Anes M. | 0.7013 |  |  |
|  | 0.40-0.65 Max 2.0$)$ |  |  |
| Fologe ente pontas 2 canalea | 0,40-0.65 M M 2.00 |  |  |
| Folagente enotas 3 ' canelata | $0.25-0.55 \mathrm{Max} \times 2.0$ |  |  |
| Fologatal 1 Panalea | 0.25 max) |  |  |
| Fologatal $2^{2}$ cranelea | 0.20 (max) |  |  |
| Folog axal $3^{\text {Pranalea }}$ | 0.15 max) |  |  |
| Canisa M | C.138904(1006.10) | C.13900(6.1076.1009) |  |
| Camisa M. | C.9.1514.106.10) | C.21956.107\%6.1009) |  |
| KtMM |  |  |  |
| ktmL |  |  |  |
| Joso Juntas MH | Jm13930444401.) যM13910\%6(6al) |  |  |
| Jogo Junas M M |  |  |  |
| Filto dodeo | 0880 (4atal) 0 C33 (fall) |  |  |
| Fitro cocombustrel |  |  |  |
| Fitrodear |  |  |  |
| Filto de Caine/ A crond. |  |  |  |
| ARVORE de manivelas |  |  |  |
| Josecromina de Biea MH | ${ }^{113305}$ |  |  |
| Joperiomina de Biea ML | 88-1024. |  |  |
| 0 doss mentes, mm | ${ }^{62.951-62.970}$ |  |  |
| Folag Radal (m) | 0.022-0.087 |  |  |
| Raio de comoratinda meeneses mm | 3.8-4,0 |  |  |
| $J$ Jogode Bomina Contal MH | M13613 |  |  |
| Jopede B Broxina Cental ML |  |  |  |
| 0 dos munheses (cob) mm | ${ }_{85,942}$ 85,964 |  |  |
| Fologatad (m) | $0.036-0.106$ |  |  |
| Raicoconoxdidinaia (munbes) mm | 3,8-4,0 |  |  |
| $0^{0}$ ocoadjamento mm | $92.000 \cdot 92,022$ |  |  |
| Josofrmeas de frasto MH | L1312 |  |  |
| Jogearneasas de Frasto $M$ L | AE-112.P |  |  |
|  | 0,08-0.25 |  |  |
| Bieas wH | ${ }^{8 L-13390}$ |  |  |
| Bieas ML | ${ }^{\text {Bl-2104 }}$ |  |  |
| Jogo bucha Pe de Biea WH | $\mathrm{Gl}_{1328}$ |  |  |
| Josobuchap ede Biea ML | ${ }^{86,588 . U}$ |  |  |
| Ocoadganenos Sidd Bucta mm | 41.000 -4,016 |  |  |
|  | 67,000 -67,019 |  |  |
| EXXO COMANDO De Vallulas |  |  |  |
|  | H13126/ $\mathrm{H1} 1322$ / H13227 |  |  |
| Joso Bucta do Exio Comano ML |  |  |  |
| 0 doscosos $\left.\mathrm{n}^{1} 1 / \mathrm{mm}\right)$ | 49,920-49,940 |  |  |
| Folag Radal (mm) | 0.05-0.34 |  |  |
| Fola A AXel (m) |  |  |  |
| Osoadoignento atavicha |  |  |  |
| Taque Reamenenado |  |  |  |
| Contraeso Varbeeum |  |  |  |
| Capa ob Manal | $35 \pm 10$ |  |  |
|  | ${ }^{90} 55.00^{\circ}$ |  |  |
| Capad B Biea |  |  |  |
|  |  |  |  |
| Cabepue | $60+10$ |  |  |
|  | $60^{\circ} \pm 3.0{ }^{\circ}$ |  |  |
|  | $60^{\circ} \pm 3.0{ }^{\circ}$ |  |  |
|  |  |  |  |
| Codiocas salumes | va0130101 VE0139000 |  |  |
| Folage devinumas | AM / ESC |  |  |
|  |  |  |  |
|  |  |  |  |  |  |  |
| Oremendelvisio ${ }^{\text {a }}$ |  |  |  |
| Pantode elnicio |  |  |  |
| Abetura co Paininato |  |  |  |
| Conpinento dosas masas das valumas soc caras |  |  |  |
| modi inema | 26.50 |  |  |
| carade | 152.50 |  |  |
| modeetema | 26,15 |  |  |
| carga | 550 |  |  |
| Abeatua Elerocotaval |  |  |  |
| Maccialenta |  |  |  |
| ${ }_{\text {S }}^{\text {SAA }}$ |  |  |  |
|  |  |  |  |  |  |  |


| MWM |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| APLICA¢¢ão | Motor |  |  |  |  |
|  | MWM 4.12 TCAE (X12) Action Euro 3 VWC Delivery | MWM 6.12 TCE (X12) <br> VW Beta / VW Protheus | MWM 4.12 TCAE (X12) VW8.150 / VW13.150 | MWM 4.12 TCE (X12) Volvo VM 21 | MWM 6.12 TCE (X12) volvo vM 3 |
| BLoco Clinoros |  |  |  |  |  |
| Pistoo Mr | E.13 | E.13880 | E.13890 | E.1380 |  |
| PistiomL | P. 92 | P.9260 | P. 92 | P.9262 |  |
| Ouantidede dos cillindos | 4 | 6 | 4 | 4 | 6 |
| 0 osasalindos, mm | 105,00 |  |  |  |  |
| Cuss, mm | 137,00 |  |  |  |  |
| Fodap Pistad Clindo, mm | 0.10 |  |  |  |  |
| Saliência do Pistão acima ou abaixo do bloco/ camisa, mm | 0,23-0,59 |  |  |  |  |
| Stalinidad ciamise, mm |  |  |  |  |  |
| Anes NH | A.13860 |  |  |  |  |
| Anes ML | 00.8373 |  |  |  |  |
| Folag ente pontas 1 canalea | 0,30-0.55 |  |  |  |  |
| Faba ente pontse 2 crandea | 0.30-0.55 |  |  |  |  |
| Faba ente pontas 3 crandea | $0.25 \cdot 0.55$ |  |  |  |  |
| Fapas axal $\mathrm{I}^{\text {canalema }}$ | $0.095-0.115$ |  |  |  |  |
| Fapa axial $r^{2}$ cranelea | $0.070-0.105$ |  |  |  |  |
| Faga axal $3^{3}$ canalea | 0.050 - 0.055 |  |  |  |  |
| Canisa MH | C.13860 | C.13880 |  |  |  |
| Camisa ML | c.9206 | c.9260 |  |  |  |
| KtMM | k.13860 | k.13880 | k.13890 | k-13900 |  |
| ktML | k.9206 | k.9280 | k.9061 | k.0062 |  |
| Filto doteo | 00.60 | 00.35 | 0.60 |  | ${ }_{0}$ c. 35 |
| Filto docombustrel | KL425 Nesso oletroica) KC24KC60 (meanio) |  |  |  |  |
| filto dear |  |  |  |  |  |
| Filtro de Cabine / Ar cond. Afvore de manivelas |  |  |  |  |  |
|  |  |  |  |  |  |
| Joge Bromina de Blea MH | ${ }^{1131090}$ | ${ }^{1312125}$ | ${ }^{1131090}$ |  | ${ }^{1312125}$ |
| Jose Bramina at Biele ML | ${ }^{88-1000-9}$ | ${ }_{\text {88-1215.P. }}$ | 88-1000 |  | ${ }_{\text {88-1215. }}$ |
| 0 doss moneses, mm | ${ }^{62.5950 .62,970}$ |  |  |  |  |
| Folag Radal (mm) | 0,026-0.081 |  |  |  |  |
| Raid de conoratindid (meneses mm | 3,80-4,00 |  |  |  |  |
| Jopode Bocurina Contal MH | M13149 | M13718 | M13149 |  | M13718 |
| Jopoce Bomina Cental ML | 8C.1499.P | вC.718.J | 8C-1499. |  | ${ }^{86} \mathrm{C} 718 . \mathrm{J}$ |
| 0 dos muntosem (caol) mm | ${ }^{85.942}$-85,964 |  |  |  |  |
| Folag Radal (mm) | 0.036-0.096 |  |  |  |  |
| Raic comoxdatasad (munbes) mm | 3.80-4,00 |  |  |  |  |
| 0cta alomento mm | $92.000 \cdot 920202$ |  |  |  |  |
| Fola a $\times$ ail (m) | 0,008-0.25 |  |  |  |  |
| Bieas wh | ${ }^{81-130010}$ |  |  |  |  |
| Beasa M. | ${ }^{81.9308}$ |  |  |  |  |
| Jose bucta Pe de Biea MH | 613928 |  |  |  |  |
| Jose bưta Pe de Biea ML | 86-928.U |  |  |  |  |
|  | 41,000-41.016 |  |  |  |  |
|  | 67,000-67,019 |  |  |  |  |
| EXXO COMANDO DE VALILULAS |  |  |  |  |  |
| $00^{0} \operatorname{coscossm}^{1 / 1}(\mathrm{~mm})$ | $50.000 \cdot 50.025$ |  |  |  |  |
| Obsadigenerio dob bucta | 54,000 -54,300 |  |  |  |  |
| Toque Reamenenata |  |  |  |  |  |
| Contrapeso Vrabequin | $60 \pm 5$ |  |  |  |  |
| Capa d Manal | $50 \pm 5$ |  |  |  |  |
|  | $1155^{\circ} \pm .50$ |  |  |  |  |
| Capa a Biea | $30 \pm 5$ |  |  |  |  |
|  | $62^{2}+5,0$ |  |  |  |  |
| Voante | $\begin{aligned} & 100 \pm \pm 10 \\ & 275 \pm 15 \end{aligned}$ |  |  |  |  |
| Cabecole | ${ }^{60+10}$ |  |  |  |  |
|  | $60^{\circ} \pm 3,0^{\circ}$ |  |  |  |  |
|  | $60^{60} \pm 3.00^{\circ}$ |  |  |  |  |
|  |  |  |  |  |  |
| Cadiodas ainus | ve0130239 va0130010 |  |  |  |  |
| Falage devinulas | Ammes. |  | Amm.res. |  |  |
| Motat fio mm | 0,20-0,40 |  | 0,20-0,40 |  |  |
| Moteratene ( $m$ m) |  |  |  |  |  |
| Ordem melanifico | 1-3-4-2 | 1-5-3-6-2-4 | 1-3-4-2 |  | 1-5-3-6-2-4 |
| Pontude agnifio |  |  |  |  |  |
| Abetura dopalimado |  |  |  |  |  |
|  |  |  |  |  |  |
| mola interna | Oarane 2.50mm VE 5 |  |  | $54,59 \quad 36,25$ | 26.50 |
| cara de | $\begin{array}{ccc}00,00 & 99,50666000 & 152,50671.00\end{array}$ |  |  |  |  |
| mode exema |  |  |  |  |  |
| cara de | $\begin{array}{lll}00,00 & 357,8 \pm 180 & 475,30 \pm 230,00\end{array}$ |  |  |  |  |
| Abeatra Eletrodotavea |  |  |  |  |  |
| Voume Camaa Cabecoue |  |  |  |  |  |
| Traxde canpersso | 16,8.1 |  |  |  |  |
| Presesiode ampeessio | 23320 |  |  |  |  |
| Propefioda Ouia | 11,30-12,60 |  |  |  |  |
| Fopad atasate | $0.030 \cdot 0.070$ |  |  |  |  |
| Ineferencria da gia | 0.0077 .0 .048 |  |  |  |  |
| Folosaxal comenensador masa | $0,10-0,30$ |  |  |  |  |
| Folagde entrampensadot masa | $0.05-0.18$ |  |  |  |  |

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## LINHA DIESEL INFORMAÇÕES TÉCNICAS

| MWM |  |  |  |
| :---: | :---: | :---: | :---: |
| APLICACĂO | MOTOR |  |  |
|  | $\underset{\substack{\text { MoToR } \\ \text { D222 }}}{ }$ | MOTOR D232 / TD23 |  |
| BLOCo CILINDROS |  |  |  |
| Pistio MH |  |  |  |
| Pstioiom |  |  |  |
| Oaunilidate dos silindos | 1/2/3/4 | 8 | 12 |
| Odossalindus, mm | 98,00 | 120,00 |  |
| arse, mm | 120,00 | 120,00 |  |
| Folop Pistad Cilindo. mm | 0.05-0.052 | 0,440-0,150 |  |
| Saliência do Pistão acima ou abaixo do bloco/ camisa, mm | ${ }^{(1) .0 .42-(1) ~ 0.65 ~}$ | (1), 1.15-(1).40 |  |
| Sllienididacamis.e.mm | 0.05 -0.07 | 0,30-1,00 |  |
| Ames wh |  |  |  |
| Anes ML |  |  |  |
| Forse ante enotas 1 canalea |  |  |  |
| Folga entre pontas $2^{\mathrm{a}}$ canaleta |  |  |  |
| Folga entre pontas $3^{a}$ canaleta |  |  |  |
| Folga entre pontas $4^{a}$ canaleta |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Folga axal 2 'canalea |  |  |  |
| Folga axal ${ }^{\text {chemanalea }}$ |  |  |  |
| Fobasaxal 4canalea |  |  |  |
| $\frac{\text { Folag axal }}{\text { Camisa NH }}$ |  |  |  |
| Camisa MH |  |  |  |
| Camisa ML |  |  |  |
| KtMH |  |  |  |
| KtM2 |  |  |  |
| Jogo Junas MH |  |  |  |
| Joposinas M L |  |  |  |
| Fitro dodeo | 0x2180 |  |  |
| Fiflo docombustrel |  |  |  |
| Filto doar |  |  |  |
| Fillo de caine / Ac cond. |  |  |  |
| Afvore de manvelas |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 0 osos moentes, mm | 72,550-72,970 | 89,942-89,964 |  |
| Fooga Radal (mm) | 0,066-0.129 | 0.0990 .0135 |  |
| Raide de conoratande (meneses nm | 4.0 |  |  |
| Jopode Blomina Canta MH |  |  |  |
| Jopose Bamina Catra ML | $\begin{gathered} \text { BC-10-U. } \\ \text { BG-108.0 } \end{gathered}$ |  |  |
| 0 dos muntosesm (cos) mm | 64.50 - 64.970 | 99,942-99,964 |  |
| Faga Ratala (mm) | 0.067-0,139 | $0.084-0.152$ |  |
| $\emptyset$ do alojamento mm | 4.0 | 5.5 |  |
|  | $78.000-78.019$ | 108,00-100,022 |  |
| Joparueses de Erosost MH |  | $\underline{1}$ |  |
|  |  | AE=037.J |  |
|  |  |  |  |
| Beass MH |  |  |  |
| ${ }^{\text {Beasas M }}$ |  |  |  |
| Joge oucha Pe de Biele WH |  |  |  |
| Joge buctap Pe de Biea ML | $\begin{gathered} \text { BG-005-U } \\ \text { BG-095-U }(\text { Ext. }+0,20) \end{gathered}$ |  |  |
|  | $42.000-42.016$ | 51,000-51,019 |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Joge ucuta do EExCOCmando NH |  |  |  |
|  |  |  |  |
|  |  | $51.220 \cdot 51.019$ |  |
| Fogag Radal (m) ${ }_{\text {(m) }}$ 0,044 0.08 |  | 0.06-0.11 |  |
| 0 Ocoadomeneto do bucha |  |  |  |
| Engenasen Exixcomano |  |  |  |
| Toave Recomenenaso |  |  |  |
|  |  | 240-250 |  |
|  |  | $280 \cdot 200$230.200 |  |
| Capa da Biela <br> Volant | +120-130 |  |  |
|  |  | ${ }^{200}$ |  |
| ${ }^{\text {Cubecale }}$ | Prisioneiro 40-50 |  |  |
|  | Pacras 40 - 150 | 70150 |  |
|  |  | $200-210$ |  |
| equência de aperto do cabeçote |  |  |  |
| Cadiocasavainles | va0130335 ve0131337 |  |  |
| Fologe devambas | AOM ESC |  |  |
| Motat fio (mm) | $0.25 \quad 0.25$ |  |  |
| Moleramene (mm) |  |  |  |
| Orden de lolvicio | $\begin{gathered} 1-3 \\ 1-3-2 \\ 1-3-4-2 \end{gathered}$ | $\stackrel{\substack{81-A 4-B 3-A 2 \\ 84-A 1-B 2-A 3}}{ }$ | B1-A6-B5-A2-B3-A4 <br> $B 6-A 1-B 2-A 5-B 4-A 3$ |
| Panto del ancisio |  |  |  |
| Abefura do Plainaso |  |  |  |
| Compeinento doss mosas das salimus sob cara |  |  |  |
| moai inema (mm) | 61.25 (emmaxas) | 34.80 |  |
| cara M ) |  | 152.60 |  |
| mode exema (mm) |  | 34.80 |  |
| carge (1) |  | 400.550 |  |
| Abertura Eletrodo da Vela |  |  |  |
| Volume Camara Cabecote |  |  |  |
| Tra de compessao |  |  |  |


| MWM |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| APLICACĞo | мотов |  |  |  |  |
|  | $\mathrm{c}_{\text {Moror }}^{\text {O28 }}$ | ${ }_{\text {Moror }}^{\text {M2as }}$ | Moror |  | Moror |
| Bloco clumbors |  |  |  |  |  |
| Patiour | E.1330 | E:1300 |  |  |  |
| Pstom | P.1076 | P.910 |  |  |  |
|  | 4 | $3 / 4 / 6$ | 3 | 4 | 6 |
| 0 Oscoindes. mm | 105,0 | 100,0 | 12200 |  |  |
| ars. .m | 120.00 | 120.00 | ${ }_{0}^{120.00}$ |  |  |
|  | 0.10 | $0.03000 .000-0.0020 .050$ |  |  |  |
|  | 0.28 .0 .800 afacame) | 0.24 .0 .57 Pexamime) | 0.10-0.4.2 Peabiou) |  |  |
| Stutrasatamise. mm | 0.094 .0 .08 | 0.04-0,09 | 0.04. 0.09 |  |  |
| mesw WH | A. 1330 | ${ }^{\text {A.31300 }}$ |  |  |  |
| mesesm | 0.6221 | 0.6679 |  |  |  |
|  | ${ }_{0}^{0.350 .055}$ | 0.350 .055 | 0.400 .085 | 0.000 .0 .55 | 0.040 .0 .55 |
| FFopentremenser caneas | ${ }_{0}^{0.350 .055}$ | 0.350 .055 | 0.400 .065 | 0.40 0.0.6 | 0.040 .0 .65 |
|  | 0.350 .055 | 0.350 .055 | 0.250 .40 | 0.25 -0,00 | 02050.40 |
|  | 0.055 .055 | 0.350 .055 |  |  |  |
|  | 0.0080 .0082 | 0.0070.0.102 | $0.077-0.107$ | $0.017-0.07$ | $0.077-0.107$ |
| Fopa aidal 2 craneat | 0.0000.0082 | 0.0070.0,02 | 0.0070 .002 | 0.0070.0.102 | $0.000 \cdot 0.102$ |
| Fopa abal 3 cranea | 0,0000 0.0032 | 0.070.0.102 | 0.0050 .0 .082 | 0.050-0.092 | 0.050 - .0.082 |
| Foup aid 4 cranea | 0.078 .0,000 | 0.0080 .0092 | C.13700 |  |  |
| Cmasem | c.1320 | C. 13000 |  |  |  |
| Canism | C.1076 | C.910 | 0.1225 |  |  |
| ${ }_{\text {кewh }}$ | k.1320 | к.13000 |  |  |  |
| k*m | K.176 | к.910 |  |  |  |
| Dopumbent | mm13044 |  | mus300 ${ }^{\text {a }}$ | (minsoraf (ax) |  |
| Smp minam | кеяM0764 | Sermorna semmame | seamereas |  |  |
| Finto bote |  |  |  |  |  |
| Filuo momutumel | nessmax |  |  |  |  |
| Filo ¢ $A$ |  |  |  |  |  |
| Filtro de Cabine / Ar cond.ÁRVORE DE MANIVELAS |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | ${ }^{8.13174}$ |  |  |  |  |
| Sop Borinate Beam |  |  |  |  |  |  |  |  |
| 0 assmoneses.m | 57.580 .5 .7 .90 |  |  |  |  |
| Fsopread (m) | 0.0460 .008 |  |  |  |  |
|  | 38.40 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |
| 0 osmunhemem (bob mm | BC-313-P BC-13314 (F) 64,951-64,970 |  |  |  |  |
| Fiva Rasad (m) | 0.0560 .0118 |  |  |  |  |
|  | ${ }^{38,40}$ |  |  |  |  |
| Oxasabenetiom | r1,000 71,099 |  |  |  |  |
| Flopatal (m) | 0.12-021 |  |  |  |  |
| Buaswh |  |  |  |  |  |
| Beasm |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | $38.000-3.0 .16$ |  |  |  |  |
|  | $62000 \cdot 62.19$ |  |  |  |  |
| Exx comanoo o vailulas |  |  |  |  |  |  |  |  |
| Sop Butame biocommen wh | ${ }^{\text {H.1326 }}$ |  |  |  |  |
|  |  |  |  |  |  |
| Fopenada (m) | 0.090 0.095 |  |  |  |  |
|  |  |  |  |  |  |
| Etromemembe Cranem |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Campeesonamauin | 170.150 |  |  |  |  |
| Capemomead | ${ }^{130-140}$ |  |  |  |  |
| Camamber |  |  |  |  |  |  |  |  |
| Vamate | 120.125100 |  |  |  |  |
| Cabexe |  |  |  |  |  |  |  |  |
|  | ${ }_{150}$ |  |  |  |  |
|  | 150 <br> 200 <br> 10 |  |  |  |  |
|  |  |  |  |  |  |
| Casposassmuses | verasoro vorsour |  |  |  |  |
| Fapasuvanes | now Esc |  |  |  |  |
| Meatrio(m) | $0.20 \quad 0.20$ |  |  |  |  |
| Odememolotico | 1.3-4-2 |  | 1.3.2 | 1-3.-4.2 | 1.5.3.3.6.2.4 |
|  |  |  |  |  |  |
| madienema (m) | 28.00 |  |  |  |  |
| carga (N) | 15280 |  |  |  |  |
| caxa |  |  |  |  |  |
|  | $330 \quad 51500$ |  |  |  |  |

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Rua Frei Henrique de Coimbra, 51 - Brasília, Feira de Santana - BA


# LINHA DIESEL INFORMAÇÕES TÉCNICAS 



## LINHA DIESEL INFORMAÇÕES TÉCNICAS




##  <br> 



| VALMET |  |  |
| :---: | :---: | :---: |
| APLICACÂo | мотов |  |
|  | 42005 | 6200 |
| BLOCO CILINDROS |  |  |
| Pistio Mr | E.3100 |  |
| Prstio ML | P.2346 |  |
| Ouantidede dos silindos | 4 | 6 |
| 0 ossocilindos, mm | 108,00 |  |
| Curs, mm | 120,00 |  |
| Faga Pistala Clindo, mm |  |  |
| Saliência do Pistão acima ou abaixo do bloco/ camisa, mm |  |  |
| Sulinidiad camise, mm | 0.030.0.8 |  |
| Anes MH | A.31000 A.31150 |  |
| Anes M $M$ | DC.7234 LC.7235 |  |
| Foda ente pontas $\mathrm{P}^{\text {canandea }}$ |  |  |
| Fodge ente pontas $2^{2}$ canalea | $0.60-0.80$ (mxx 1.50) |  |
| Fopa ente pontas $3^{\text {chanalea }}$ | 0,30-0.00 max 1.00) |  |
| Fogasaxal 1 'canalea | 0,07- -0,102 (max, 150) |  |
| Folga axal 2 cranelea | 0.033 .0 .062 mexa 0.150 |  |
| Foga axal ${ }^{\text {ctanaleta }}$ | 0.055-0.082(mxa, .150) |  |
| Canisa MH |  |  |
| Camisa ML |  |  |
| KtMH |  |  |
| ktML |  |  |
| Jogo Junas WH |  |  |
| Jogo Junas $M$ L |  |  |
| Fitro doveo |  |  |
| Filto docombustrel |  |  |
| Filtrodot |  | L20511 elxs371 |
| Fillo de Cabine / A cond. |  |  |
| Afvore de manivelas |  |  |
|  | ${ }^{\text {B.31103 }}$ |  |
| $J$ Joperiomina ${ }^{\text {a }}$ B Biea ML | 88-103.J |  |
| 0 dosmenenes, mm | 67,981-68,000 |  |
| Folag Rataid (mm) | 0.046-0.098 |  |
| Raide de conoratinide (meneses mm |  |  |
| Jogo de Borozina Cental MH | M.31560 |  |
| Jogo of Biorzina Cental $M$ M | ${ }^{\text {BC. } 560 . J}$ |  |
| 0 doss muntoesen (cab) mm | ${ }^{84,996585.5020}$ |  |
| Folag Radal (mm) | 0.050-0,127 |  |
| Raio ounoordinial (muntios) mm |  |  |
| 0.0 aldignetio $m$ |  |  |
| Jogo Arueasas de frasos MH | L-31062 |  |
|  | AE=062-J |  |
| Fodgasaial (m) | 0.100-0,350 |  |
| Bieas wh |  |  |
| Beas ML |  |  |
| Jugo buchap Pode Beia $M$ H | 6.3117 |  |
|  | ${ }^{86-17.17 . J}$ |  |
| 0 Ocoaldamenosid da Buxia mm | 44,000-44,025 |  |
| Os a aldamento di Broxina mm | 71,730-71,749 |  |
| EXXO COMANDO De Vallulas |  |  |
|  | ${ }^{\text {H-31095 }}$ |  |
| $J$ Jope Bucha de Exio Comand ML | EC.095.J |  |
| Folag Radal (mm) |  |  |
| 0 Osoaldanento da bucha |  |  |
| Engerenem Ebiocemanco |  |  |
| Exo do Aumiliar Balanim |  |  |
| Bucha Exio Auxiara Baancim |  |  |
| Touve Recomenendo |  |  |
| Contrapesurabeeuim |  |  |
| Capa a M Manal | 600 | 1000 |
| Capanal Biea | $40+90^{\circ}$ |  |
| Vaante | 140 |  |
|  | 80 |  |
| Cabeoctie a olindo | ${ }^{90}$ |  |
|  | ${ }_{90}$ |  |
| Cabectie ab lex | 30 |  |
|  |  | 0 |
| Cadiogods a rimus | va031273 vebalioza |  |
| Folage devinulas |  |  |
| Motat fio mm |  |  |
| Motoc wenene mm |  |  |
| Orden de enincio | 1-2.43 | 1.5.3.6.2.4 |
| Pambe de anifico |  |  |
| Abeturas Palatrado |  |  |
| Comprimento das molas das válvulas sob carga |  |  |
| moda inema |  |  |
| carga de |  |  |
| mola externa |  |  |
| Carag de |  |  |
| Abertura Eletrodo da Vela |  |  |
| Pressacocmpessao | ${ }^{24}$ |  |
| Macribelena |  |  |



| volvo |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Apluação | мотов |  |  |  |
|  | T0 123 EDCO (880/410) |  |  | MOTOR TD 122 F/FS /FR CAMINHAO NL12-360/NL 12-400 NL 12-410 APOS 1990 |
| Bloco clumoros |  |  |  |  |
| Pritown | E.71240 | E.71061 | E.7102 | E.7103 |
| Pstiom | ค.912 | P.133 | P.920 | P.1880 |
| Oamintad bas shinus | 6 | 6 | $\bigcirc$ | 6 |
| 0 ousainumas. mm | 130,18 | 130,18 | ${ }^{130,18}$ | 30,18 |
| Cane. .m | 15000 | 150,0 | 150,0 | 150,0 |
| Foup Pritac climo. . mm | 0.08 | ${ }^{0.13}$ | 0.16 | 0.14 |
|  | 0.70 | 0.45 | 0.45 | 0.55 |
| Ssulerasadicanse. mm | 0.870 .58 | 0.470 .58 | 0.470 .58 | 0.470 .58 |
| Ames HH | A77700 A77709 | A71450 | A77450 | A77460 |
| Amesm | L-77445 Sc.7845 | 16.697 | 16.6975 | 16.697 |
|  | 0.560.79 | 0.550 .79 | 0.560 .79 | 0.560.0.9 |
|  | 0.460 .08 | 0.460 .09 | 0.46 .069 | 0.460 .080 |
|  | 0,430.881 | 0.458 .81 | 0.435 .881 | 0.43 -0.81 |
|  | $0.000 \cdot 0,12$ | $0.000 \cdot 0,12$ | 0.0080 .12 | 0,000 0,12 |
| Fopeatal $z^{\text {candea }}$ | 0.055 .0 .08 | 0.055 .0 .08 | 0.055 .008 | 0.055 .0 .08 |
| Foberatal 3 cranea | 0.055 .008 | 0.055 .008 | 0.05 -0,08 | 0.055 .008 |
| Cmina wh | C.71240 | C.7100 | C.7100 | C.71050 |
| Comis me | c.912 | c.920 | c.920 | C.1880 |
| KıNH | k.7220 | K.71460 | K.71450 | K.71500 |
| kem | K.912 | k.030 | k.2020 | K.1880 Skukiso |
| Fitiocodeo | oc12 0 Ocas2 |  | 0021 |  |
| Fitiocomamuster | к075 |  | кге24кcos |  |
| Flicooct | K1281 |  |  | Lx1055 © Us7231 |
|  |  |  |  |  |
|  |  |  |  |  |
|  | 8.7123 | $88.723^{8,717288}$ | $8{ }^{8,724838.71288}$ |  |
| jope Bminame | ${ }^{882883.0}$ | 88.233 .588 .2585 | 882735.582880. |  |
| ocassmentes. mn | ${ }^{20208.22043}$ | 20088.22043 | 22088.82,03 | 820208.20.03 |
| Foup Rade (m) | 0.088 .0 .10 | $0.088 \cdot 0.10$ | 0.088 -0,10 | 0.088 .0 .110 |
|  | $4.35 \cdot 4.40$ |  |  |  |
|  | M7332 | M.7132 | M7132 | ${ }^{\text {m7132 }}$ |
|  | ${ }^{\text {8c322. }}$ |  | ${ }^{86} 323$ | ${ }^{86} 32 . \mathrm{J}$ |
| O.asemumbeen (abe) mm | 107995-10,987 | ${ }^{107995-10,937}$ | ${ }^{10,9955-10,937}$ | ${ }^{107995-109987}$ |
| Foup Rasal (m) | 0.073 .0134 | $0.0773 .0,13$ | 0.073 -0,134 | $0.0773 .0,134$ |
|  | $4.35-480$ |  |  |  |
| 0.0 abiameniomm | $11.3000 .113,065$ |  |  |  |
|  | L.71097 | 1.7109 | L.71097 | L.71097 |
|  | ${ }_{\text {E-907, }}$ | ${ }^{\text {E-07, }}$ | ${ }^{\text {a }=077 .}$ | ME097. |
| Frip hail (m) | 0.070 .032 | 0.070 .0 .32 | 0.070 .032 | 0.070 .032 |
| Buasw |  |  | 80.710es |  |
| Beasm |  |  | 8. 8800 |  |
| Jepoumarabemeam $M$ H | 6.78391.7.7620 (sam) | ${ }^{6.7} 78381.7 .7502(5 m m)$ |  |  |
| Jopoumareobebeam $M$ |  |  |  |  |
|  | 60,300-60,36 | E0,300-60,36 | 60,300-60,36 | 60,300-60,36 |
|  | 9\%935-96.850 | ${ }_{98,835} 98.880$ | ${ }^{96,835.98 .850}$ | ${ }^{9,985}$-96,80 |
| ExO COMANOO DE Valvulas |  |  |  |  |
|  | н77111 | H7111 | H7111 | \#77111 |
|  | Ealins | E.alitiv | E.alin | E.117 |
|  | ${ }^{6.9968 .690 .015}$ | ${ }^{68.996}$ 6e9015 | ${ }^{6.989}$-69015 | ${ }^{68,996}$-69015 |
| m2 $\mathrm{mm}_{\text {m }}$ |  | 66621-66.800 | ${ }^{66,621-6,860}$ | ${ }^{66,621-66,40}$ |
| ${ }^{\text {m }}$ (mm) | 64233 -64,23 | 64.233 -64,23 | 64233 -64232 | ${ }^{642335-64522}$ |
| $\mathrm{m}^{29}(\mathrm{~mm})$ | ${ }^{63,446.653 .45}$ | ${ }^{63,446.68,465}$ | ${ }_{6,3466.68,45}$ | ${ }^{63,446-6,4.45}$ |
| "5 (mm) | 61,088-6.0707 | 61,088-6.077 | 61,088-6.1,07 | 61.088.6.1,07 |
| " 6 (mm) | 60271-62020 | 60.271.62020 | 60271-62,20 | 60271-62020 |
| \% ${ }^{\text {m mm) }}$ | ${ }_{56,298.56315}$ | 56,206.58,315 | 56,296.58,315 | ${ }_{56,206.58 .35}$ |
| Foup Padel (m) | 0.035 -0,79 | 0.0055 .0079 | 0.0058 .0079 | 0.0055 .0079 |
| Fropene (mm) |  | 0.050 .0 .13 | 0.055 | 0.0550 .13 |
| Taquenemmata |  |  |  |  |
| Cam obumal | 30225 | 330 | 330 | 3025 |
| Cama 8 Bua | 40 | 230 | 230 | 40 |
|  | ${ }^{75}$ |  |  | 75 |
|  | ${ }^{90}$ |  |  | ${ }_{90}$ |
| vasate | 165 -180 | 170 | 170 | ${ }^{165-190}$ |
| ${ }^{\text {ababaye }}$ | 50 | 50 | 50 | 50 |
|  | ${ }^{150}$ | ${ }^{50}$ | 150 | 150 |
|  | ${ }^{190}$ | 180 | 180 | 190 |
|  | ${ }_{60}$ | ${ }_{60}$ | ${ }^{\text {g }}$ | ${ }_{\text {of }}$ |
|  |  |  |  |  |
| Cataposarames | vaerieas verileza | vaeriorz veroriozo |  |  |
|  | Now Es. |  |  | now Es. |
| Matatiomm | 0.40 0.70 |  |  | 0,40 0.70 |
|  | 1.5.3.6.2-4 | ${ }^{1.5 .3 .6 .6 .2 .4}$ | $1.5 \cdot 3 \cdot 6 \cdot 2 \cdot 2 \cdot 4$ | 1.5.3.6.2-2.4 |
| Pamios ablicio | (ex |  |  |  |
|  |  |  |  |  |
| madema | 5 | ${ }^{67}{ }^{48}$ | ${ }^{67} \quad 48 \quad 34$ | $67 \quad 48 \quad 38$ |
| carame | ${ }^{350.300}$ |  |  | $00180 \cdot 1800.245-275$ |
| madeema |  | $13 \quad 54 \quad 40$ | ${ }_{73} \quad 54 \quad 40$ | ${ }_{73} 8440$ |
| caracte |  | m $3030.380 \quad 610.650$ |  | me 350.300 610.60 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Trascompeseso |  | 142:1 | 142:1 | 150:1 |

## LINHA DIESEL INFORMAÇÕES TÉCNICAS



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