

3516C MARINE ENGINE

Engine Serial Number Prefix - TTH (Build Date - 11/09/2008, Test Date - 15/09/2008, Ship Date - unknown)

ENGINE - ENTIRE GROUP PREFIX (TTH)

| NPR | Note | Part No. | Change | Qty | Part Name |
|---------------|------|----------|--------|------|--------------------------------|
| | | | Level | Req. | |
| FEATURE CODES | | | | | |
| I | | 516DM47 | F | 001 | 3516CHD MAR TII OPPROT 1600RPM |
| I | | SHLDSP1 | F | 001 | SPRAY SHIELDING |
| I | | DOILDFU | F | 001 | DUPLEX OIL / DUPLEX FUEL |
| I | | SRVLHS1 | F | 001 | LEFT HAND SERVICE SIDE |
| I | | PNLPYR1 | F | 001 | INSTRUMENT PANEL_PYROMETER |
| S | | WHOEXT6 | F | 001 | WIRING HARNESS EXT-30M/100FT 6 |
| I | | TCO0008 | F | 001 | THERMOCOUPLES |
| S | | MPD0001 | F | 001 | MARINE POWER DISPLAY |
| S | | EVSD002 | F | 001 | ENGINE VISION DISPLAY |
| S | | MGSEN01 | F | 001 | MARINE GEAR SENSORS 01 |
| S | | BXIFCS2 | F | 001 | CUSTOMER INTERFACE BOX 10M |
| S | | BTC1005 | F | 001 | BATTERY CHARGER 10 AMP |
| I | | ALT2478 | F | 001 | CHARG ALT 24V 60A OPPOSITE ROT |
| I | | OPADRN4 | F | 001 | OIL PAN DRAIN VALVE |
| I | | LUBOIL2 | F | 001 | LUBRICATING OIL 02 |
| I | | SPMPRH3 | F | 001 | SUMP PUMP RH 500 OR 1000 HR. |

| | | | | |
|---|---------|---|-----|--------------------------------|
| I | ELEPP00 | F | 001 | ELEC PRELUBE PMP 24 VOLT 00 |
| I | FPPRH05 | F | 001 | FUEL PRIMING PMP RH MOUNTED |
| S | FLN0001 | F | 001 | FLEXIBLE FUEL LINES |
| S | FLXCGD0 | F | 001 | FLEXIBLE COUPLING GUARD |
| I | SHAFT02 | F | 001 | FRONT STUB SHAFT FULL HP |
| S | RECTMO1 | F | 001 | PROGRAM. RELAY CONTROL MODULE |
| I | THPCNV0 | F | 001 | THROTTLE POSITION SIGNAL CONV. |
| I | CNLTHR1 | F | 001 | LOCAL SPEED THROTTLE CONTROL |
| I | ELSDLH8 | F | 001 | ELEC START MTR LH DUAL 24V 08 |
| I | BAT2417 | F | 001 | 24V BAT SET-DRY 2600 CCA |
| S | EXCFF11 | F | 001 | FLEXIBLE FITTING 11 |
| S | SNDIS00 | F | 001 | VIB ISOLATION 500 OR 1000 HR. |
| I | BARGP01 | F | 001 | ENGINE BARRING GROUP |
| I | FULIN06 | F | 001 | RIGID FUEL LINES-ENGINE |
| S | CLS0001 | F | 001 | COOLANT LEVEL SENSOR |
| S | AIARM15 | F | 002 | AIR INL ADPT-ROUND T2/UR EPDM |
| I | OPPTROT | F | 001 | OPPOSITE ROTATION ENGINE |
| I | CSTHEXC | F | 001 | HEAT EXCHANGER COOLED |
| I | MSALR27 | F | 001 | LR ENGINE CERTIFICATION |
| I | DPX0001 | F | 001 | DOMESTIC PACK-EXPORT CONTAINER |
| I | SPCPNT1 | F | 001 | SPECIAL PAINT - 3500 |
| I | TRSENG1 | F | 001 | STD ENGINE TEST CHARGE 3L0436 |
| I | MISCHC2 | F | 001 | MISC. INSPECTION |
| I | EECDOI1 | F | 001 | EEC DECLARATION OF INCORP. |
| I | IMOGL16 | F | 001 | IMO GL ENG CERT 2501-3000 HP |

| | | | | |
|---|---------|---|-----|------------------------------|
| I | MSCMA90 | F | 001 | PLEASURE CRAFT |
| I | MWCODEE | F | 001 | PRIME POWER |
| I | MSMARPR | F | 001 | MARINE PROPULSION COMMERCIAL |
| I | MARINEC | F | 001 | MARINE INTERMITTENT C RATING |
| | DM9252 | F | 001 | DM9252 |
| I | SRST001 | F | 001 | STD OPERATING SPEED RANGE |
| I | YESMREQ | F | 001 | MCS CERTIFICATION REQUIRED |
| I | MARCOMM | F | 001 | MARINE PROP-COMMERCIAL |
| I | 3516C F | F | 001 | 3516C DIESEL ENGINE |
| I | FLAGNO | F | 001 | NON GERMAN FLAGGED VESSELS |
| I | MARPROP | F | 001 | MARINE PROPULSION ENGINE |
| I | HP02682 | F | 001 | 2682 BHP (2000 BKW) W/O FAN |
| I | 1600RPM | F | 001 | 1600 RPM |

PART NUMBERS

| | | | | |
|-----|----|-----------|-----|----------------------------------|
| | I | LA4891 01 | 001 | MARINE 3516C HD 1600 RPM EPA T |
| NPR | IY | 282-9668 | 19 | 001 ENGINE AR |
| | S | 5P-2506 | 00 | 001 LITERATURE GP |
| NPR | IY | 7N-8650 | 05 | 001 RAIL GP-ENGINE SUPPORT |
| NPR | IY | 8N-5743 | 12 | 001 DRIVE GP-ACCESSORY |
| NPR | IY | 8N-8466 | 08 | 001 PUMP GP-AUXILIARY SEA WATER |
| NPR | IY | 226-2773 | 01 | 002 AIR CLEANER GP |
| NPR | IY | 231-9999 | 09 | 001 BOX GP-JUNCTION |
| NPR | IY | 253-6218 | 02 | 001 MOUNTING GP-BOX |
| NPR | IY | 271-5800 | 03 | 001 CONVERSION AR-CRANK ROTATION |
| NPR | IY | 288-8047 | 03 | 001 MOUNTING GP-AIR CLEANER |

| | | | | | |
|---------------|----|-----------|-----|-----|--------------------------------|
| NPR | IY | 296-8289 | 04 | 001 | WIRING GP-ENGINE |
| NPR | IY | 310-2841 | 02 | 001 | DRIVE GP-AUXILIARY |
| NPR | IY | 197-9052 | 00 | 001 | GUARD GP-DAMPER |
| | I | LA4909 00 | 001 | | FUEL AND OIL CONNECTION SCREEN |
| NPR | IY | 306-2157 | 00 | 001 | SHIELD GP-ENGINE OIL LINES |
| NPR | IY | 246-0457 | 13 | 001 | SHIELD GP-FUEL LINES |
| | I | LA4906 00 | 001 | | DUPLEX OIL / DUPLEX FUEL |
| NPR | IY | 120-4501 | 14 | 001 | FILTER GP-ENGINE OIL |
| NPR | IY | 307-0008 | 01 | 001 | WIRING GP-SENSOR |
| NPR | IY | 292-4521 | 01 | 001 | MOUNTING GP-INSTRUMENT PANEL |
| NPR | IY | 300-0478 | 01 | 001 | BOX GP-INSTRUMENT PANEL |
| NPR | SY | 239-1487 | 00 | 001 | WIRING GP-ENGINE ELECTRONIC |
| | I | LA4035 00 | 001 | | THERMOCOUPLES |
| NPR | IY | 120-4498 | 04 | 016 | THERMOCOUPLE GP |
| NPR | SY | 267-8623 | 02 | 001 | DISPLAY GP-MONITOR |
| | I | PA7017 | 11 | 001 | ENGINE VISION SYSTEM DISPLAY |
| NPR | SY | 130-6196 | 03 | 001 | MODULE GP-SYSTEM |
| COMMUNICATION | | | | | |
| NPR | SY | 7C-2668 | 02 | 001 | DIODE AS |
| NPR | SY | 289-6327 | 00 | 001 | CONTROL GP-MONITOR |
| | I | LA4020 01 | 001 | | MARINE GEAR SENSORS |
| NPR | SY | 161-9932 | 05 | 001 | SENSOR GP-PRESSURE |
| NPR | SY | 102-2240 | 06 | 001 | SENSOR GP-TEMPERATURE |
| NPR | SY | 241-5630 | 01 | 001 | BOX GP-JUNCTION |
| NPR | SY | 7W-0408 | 01 | 001 | BATTERY CHARGER |
| | I | LA4051 03 | 001 | | CHARGING ALTERNATOR-24V 60 AMP |

| | | | | | |
|-----|----|-----------|-----|-----|--------------------------------|
| NPR | IY | 7E-2858 | 08 | 001 | ALTERNATOR GP-CHARGING |
| NPR | IY | 7E-4836 | 10 | 001 | MOUNTING GP-ALTERNATOR |
| NPR | IY | 7W-5780 | 06 | 001 | GUARD GP-BELT |
| NPR | IY | 253-9546 | 00 | 001 | WIRING GP-ALTERNATOR |
| NPR | IY | 151-9228 | 03 | 001 | GUARD GP-BELT |
| NPR | IY | 9Y-7876 | 03 | 001 | DRAIN GP-ENGINE OIL |
| | I | PA5314 | 07 | 001 | LUBRICATING OIL |
| NPR | I | 5P-2586 | 05 | 833 | OIL |
| | I | PA4469 | 05 | 001 | SUMP PUMP RH |
| NPR | IY | 3N-4868 | 05 | 001 | HOSE AS |
| NPR | IY | 7N-7069 | 15 | 001 | PUMP GP-SUMP |
| | I | LA4122 00 | 001 | | ELECTRIC PRELUBE PUMP W/SHIELD |
| NPR | IY | 4P-4926 | 06 | 001 | PUMP & LINES GP-PRELUBRICATION |
| NPR | IY | 120-4513 | 01 | 001 | BOX GP-JUNCTION |
| NPR | IY | 232-0899 | 01 | 001 | WIRING GP-PRELUBRICATION |
| NPR | IY | 244-0479 | 00 | 001 | SHIELD GP-ENGINE OIL LINES |
| | I | LA4109 00 | 001 | | DUPLEX FUEL FILTER W/SHIELD GP |
| NPR | IY | 241-2738 | 04 | 001 | FILTER GP-FUEL |
| NPR | IY | 244-6567 | 03 | 001 | SHIELD GP-FUEL LINES |
| | I | LA4112 01 | 001 | | FUEL PRIMING PUMP W/SHIELD GP |
| NPR | IY | 244-2478 | 03 | 001 | SHIELD GP-FUEL LINES |
| NPR | IY | 210-1175 | 04 | 001 | PUMP GP-FUEL PRIMING |
| NPR | SY | 5N-2438 | 05 | 001 | LINES GP-FLEXIBLE FUEL |
| NPR | SY | 7C-9077 | 03 | 001 | MOUNTING GP-MARINE XMSN |
| NPR | IY | 7W-3629 | 03 | 001 | SHAFT GP-STUB |

| | | | | | |
|-----|----|-----------|-----|-----|--------------------------------|
| NPR | SY | 133-9300 | 02 | 001 | CONTROL GP-ENGINE ELECTRONIC |
| | I | LA2035 03 | 001 | | THROTTLE POSITION SIGNAL CONV. |
| NPR | SY | 140-2175 | 00 | 001 | CONTROL GP-REMOTE SPEED |
| NPR | IY | 238-9549 | 03 | 001 | CONTROL GP-FUEL |
| | I | LA4010 01 | 001 | | ELECTRIC STARTING MOTOR LH 24V |
| NPR | IY | 8N-3898 | 15 | 001 | STARTING MOTOR GP-ELECTRIC |
| NPR | IY | 238-2928 | 01 | 001 | WIRING GP-ELECTRIC STARTING |
| | I | PA1787 | 10 | 001 | 24 VOLT BATTERY SET - DRY |
| NPR | SY | 7L-7872 | 09 | 002 | BATTERY GP |
| NPR | SY | 5N-9527 | 04 | 001 | FITTING GP-EXHAUST |
| NPR | SY | 2W-3037 | 01 | 001 | MOUNTING GP-SOUND ISOLATION |
| NPR | IY | 253-2468 | 01 | 001 | BARRING GP |
| | I | LA4510 00 | 001 | | RIGID FUEL RETURN LINE |
| NPR | IY | 273-3285 | 01 | 001 | LINES GP-FUEL |
| NPR | IY | 276-1307 | 02 | 001 | SHIELD GP-FUEL LINES |
| NPR | SY | 204-2518 | 01 | 001 | SENSOR GP-LIQUID LEVEL |
| NPR | SY | 209-4453 | 01 | 002 | ADAPTER GP-AIR CLEANER |
| | I | OP-8760 | | 001 | LR ENGINE CERTIFICATION |
| | I | OP-7824 | | 001 | DOMESTIC PACK-EXPORT CONTAINER |
| | I | OV-0933 | | 001 | SPECIAL PAINT-3500 |
| | I | LA1311 06 | 001 | | EEC D.O.I. |
| | I | OP-1852 | | 001 | STD ENGINE TEST CHARGE 3L0436 |
| | I | OP-7980 | | 001 | MISC. INSPECTION |
| | I | 5N-9622 | | 001 | NOTE-EEC (ENGINE) |
| | I | OV-2994 | | 001 | IMO GL ENG CERT 2501-3000BHP |

| | | | | |
|---|-----------|-----|-----|--------------------------------|
| I | 0V-1045 | | 001 | END USE: MAR PROPULSION |
| I | LL5769 02 | 001 | | 2682 BHP WOF MAR PROP 'C' |
| I | OK-8047 | | 001 | 2000 BKW (2682 BHP) @ 1600 RPM |
| I | 0V-3463 | | 001 | EPA TIER II - MARINE |
| I | 0V-3465 | | 001 | IMO COMPLIANT |
| I | 0V-3495 | | 001 | EU MARINE INLAND WATERS |

SHIPPED LOOSE

| | | | | |
|-----|----|---------|-----|-----------------------------|
| | S | | 001 | PACK IN CARTON ONLY INFO(A) |
| | S | ESO | 001 | (PRNT ESO COPY) |
| | S | PML | 001 | *REQUIRED DECALS |
| NPR | S | 0S-1571 | 012 | BOLT |
| NPR | S | 0S-1588 | 006 | BOLT |
| NPR | S | 0S-1589 | 012 | BOLT |
| NPR | S | 0S-1594 | 032 | BOLT |
| NPR | S | 0S-1595 | 016 | BOLT |
| NPR | S | 1B-5355 | 012 | NUT-FULL |
| NPR | S | 1B-5357 | 012 | NUT-FULL |
| NPR | S | 1D-6306 | 008 | NUT |
| NPR | S | 2H-3893 | 004 | SETSCREW-SQUARE HEAD |
| NPR | S | 2J-3507 | 008 | NUT-FULL |
| NPR | S | 2V-7397 | 002 | CABLE AS |
| NPR | SY | 2W-3037 | 001 | MOUNTING GP-SOUND ISOLATION |
| NPR | S | 2W-7873 | 001 | GASKET-EXHAUST |
| NPR | S | 3N-6504 | 001 | HOSE AS |
| NPR | S | 3P-6061 | 002 | GASKET |

| | | | | |
|-----|----|---------|-----|-------------------------|
| NPR | S | 5F-5990 | 002 | CLIP |
| NPR | S | 5L-4398 | 012 | BOLT |
| NPR | S | 5M-2894 | 032 | WASHER-HARD |
| NPR | S | 5N-1901 | 008 | FASTENER |
| NPR | S | 5N-1902 | 008 | SHIM |
| NPR | S | 5N-1903 | 008 | SPOOL |
| NPR | S | 5N-1904 | 004 | BASE |
| NPR | S | 5N-1905 | 016 | WASHER-ISOLATOR |
| NPR | S | 5N-1906 | 008 | FLANGE |
| NPR | S | 5N-1907 | 072 | SHIM |
| NPR | SY | 5N-2438 | 001 | LINES GP-FLEXIBLE FUEL |
| NPR | SY | 5N-9527 | 001 | FITTING GP-EXHAUST |
| | S | 5P-2506 | 001 | LITERATURE GP |
| NPR | S | 5P-4116 | 048 | WASHER-HARD |
| NPR | S | 5P-8245 | 024 | WASHER-HARD |
| NPR | S | 5P-8250 | 008 | WASHER |
| | SY | 6L-4502 | 001 | CHART-PLATE & FILM |
| NPR | S | 6V-8918 | 024 | BOLT |
| NPR | SY | 7C-2668 | 001 | DIODE AS |
| NPR | S | 7C-8692 | 002 | GUARD-COUPLING |
| NPR | SY | 7C-9077 | 001 | MOUNTING GP-MARINE XMSN |
| NPR | S | 7D-1649 | 016 | WASHER-HARD |
| NPR | S | 7D-3958 | 001 | HOSE AS |
| NPR | SY | 7L-7872 | 001 | BATTERY GP |
| NPR | SY | 7W-0408 | 001 | BATTERY CHARGER |

| | | | | | |
|---------------|-----|----|----------|-----|------------------------------|
| | NPR | S | 8L-8413 | 004 | STRAP-CABLE |
| | NPR | S | 8N-1186 | 001 | HOSE AS |
| | NPR | SY | 8N-8466 | 001 | PUMP GP-AUXILIARY SEA WATER |
| | NPR | S | 9G-0003 | 004 | COVER AS-TERMINAL |
| | NPR | S | 9G-0004 | 004 | COVER AS-TERMINAL |
| | NPR | S | 9L-9132 | 012 | WASHER |
| | NPR | S | 9S-8752 | 006 | NUT-FULL |
| | NPR | SY | 9X-9730 | 004 | BATTERY GP |
| | NPR | S | 031-4155 | 024 | LOCKNUT |
| | NPR | SY | 102-2240 | 001 | SENSOR GP-TEMPERATURE |
| | NPR | S | 128-0856 | 006 | CLAMP-HOSE |
| | NPR | SY | 130-6196 | 001 | MODULE GP-SYSTEM |
| COMMUNICATION | | | | | |
| | NPR | SY | 133-9300 | 001 | CONTROL GP-ENGINE ELECTRONIC |
| | NPR | SY | 140-2175 | 001 | CONTROL GP-REMOTE SPEED |
| | NPR | SY | 161-9932 | 001 | SENSOR GP-PRESSURE |
| | NPR | SY | 204-2518 | 001 | SENSOR GP-LIQUID LEVEL |
| | NPR | S | 207-1332 | 001 | BELLOWS AS |
| | NPR | SY | 209-4453 | 001 | ADAPTER GP-AIR CLEANER |
| | NPR | S | 209-4455 | 002 | ADAPTER |
| | NPR | S | 212-8188 | 002 | STRIP |
| | NPR | S | 219-7509 | 002 | TUBE |
| | NPR | S | 219-7510 | 002 | HOSE |
| | NPR | SY | 225-0774 | 001 | MODULE GP-SYSTEM |
| COMMUNICATION | | | | | |
| | NPR | SY | 239-1486 | 001 | HARNESS AS-ENGINE |

| | | | | |
|-----|----|----------|-----|-----------------------------|
| NPR | SY | 239-1487 | 001 | WIRING GP-ENGINE ELECTRONIC |
| NPR | SY | 239-1488 | 001 | HARNESS AS-SENSOR |
| NPR | SY | 239-1489 | 001 | HARNESS AS-SENSOR |
| NPR | SY | 240-5874 | 001 | HARNESS AS-BOX |
| NPR | SY | 241-5630 | 001 | BOX GP-JUNCTION |
| NPR | SY | 267-8623 | 001 | DISPLAY GP-MONITOR |
| NPR | SY | 273-3285 | 001 | LINES GP-FUEL |
| NPR | SY | 289-6327 | 001 | CONTROL GP-MONITOR |
| | S | LEBM0189 | 001 | OPERN |
| | S | LEXM0051 | 001 | IMO TECH DOC |
| | S | SEBU6251 | 001 | LUBE 140019B2(A) |
| | S | SEBU7844 | 001 | OMM |
| | S | SELF5393 | 001 | WARRANTY |
| | S | SENR6588 | 001 | SMGP |
| | S | SERP4547 | 001 | PTSCD |

Key:

I Installed

S Shipped Loose

Y Separate Illustration

Copyright 1993 - 2015 Caterpillar Inc.

All Rights Reserved.