

# CATERPILLAR 3412

5RL / SEBP7518

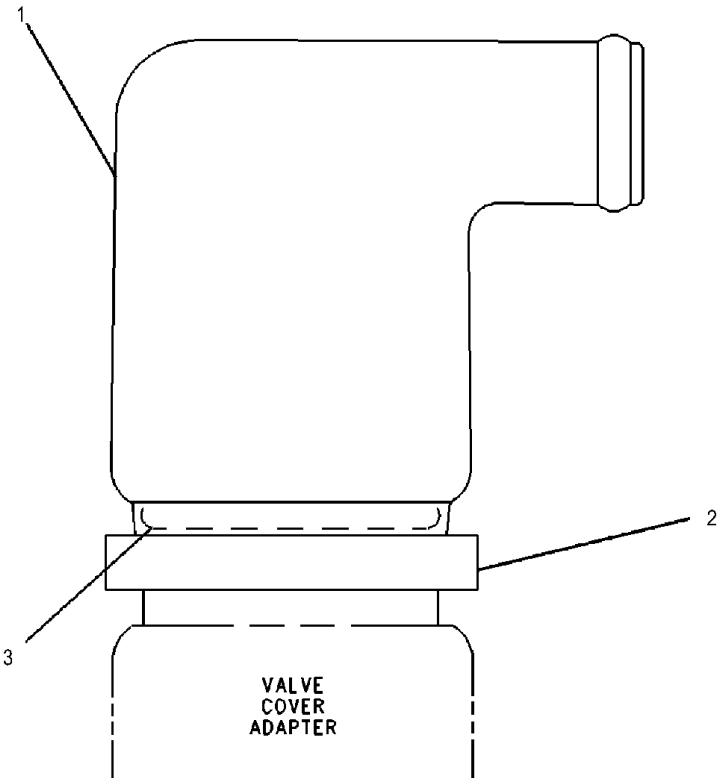
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| Fuel system                        |      |
| Electrical and electronics         |      |
| Basic engine                       |      |
| Basic engine                       |      |
| Electrical and electronics         |      |

2N-8220 BREATHER GP -CRANKCASE

2N-8220 BREATHER GP -CRANKCASE PART OF 4R-9970 ENGINE AR-CORE FOR USE WITH FUMES DISPOSAL GROUPS

Drawing 1 of 1



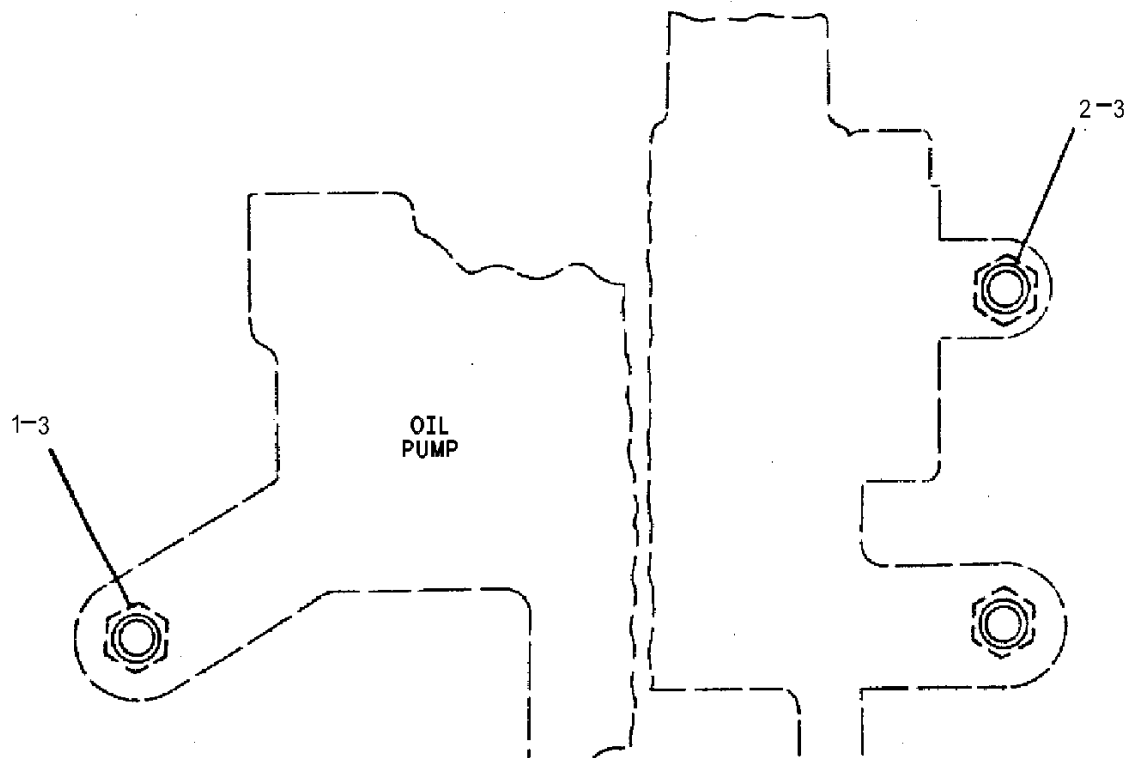
| Ref. | Part number | Description             | Qty | Code | Group page |
|------|-------------|-------------------------|-----|------|------------|
| 1    | 9Y-2988     | BREATHER AS (CRANKCASE) | 1   | C    |            |
| 2    | 2N-8109     | CLAMP                   | 1   |      |            |
| 3    | 6V-3831     | SEAL-O-RING             | 1   |      |            |

CAT codes: C.

4N-2481 FASTENER GP-OIL PUMP MOUNTING -ENGINE

4N-2481 FASTENER GP-OIL PUMP MOUNTING -ENGINE PART OF 4R-9970 ENGINE AR-CORE

Drawing 1 of 1

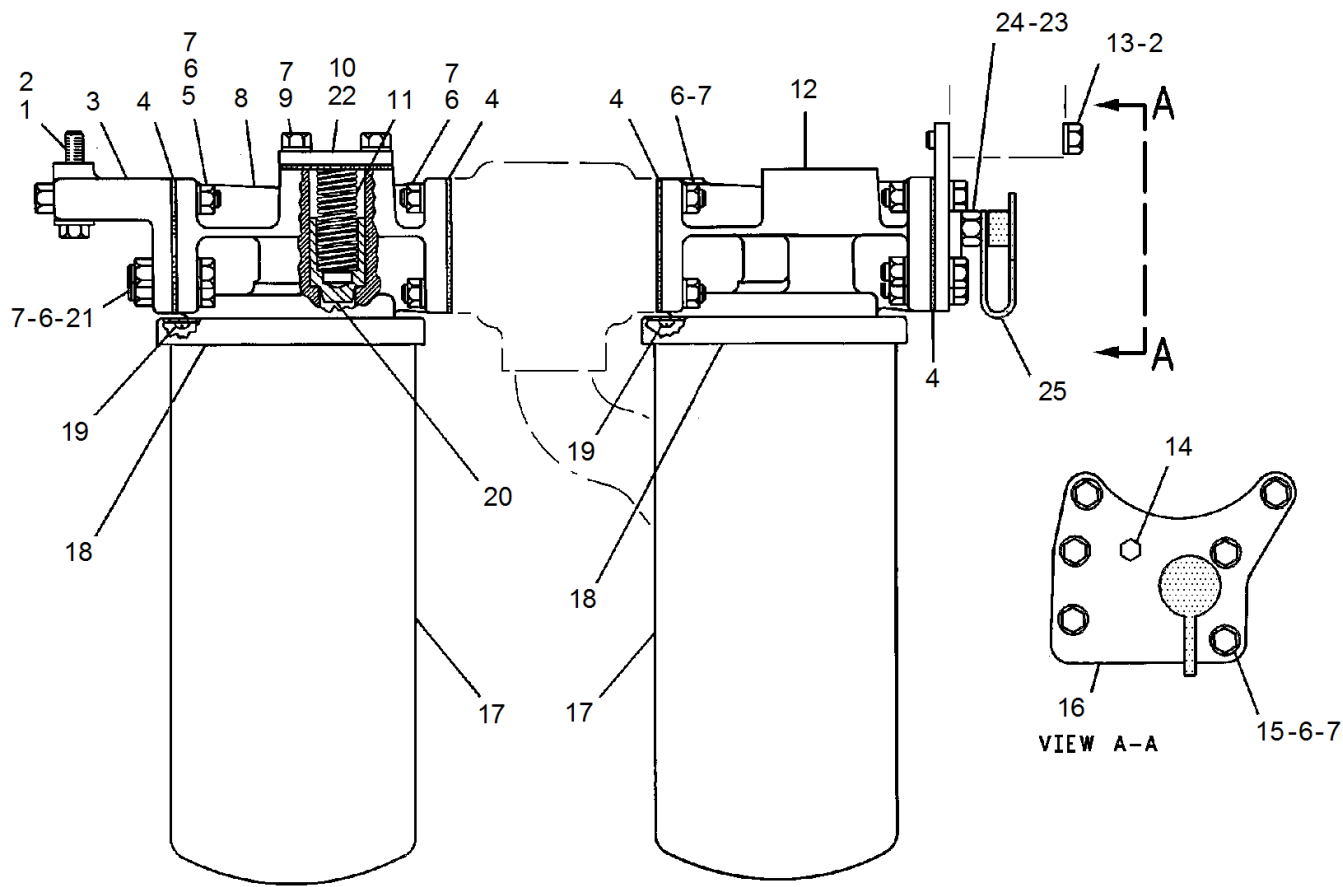


| Ref. | Part number | Description                        | Qty | Code | Group page |
|------|-------------|------------------------------------|-----|------|------------|
| 1    | 0L-1143     | BOLT (3/8-16X2.5-IN)               | 2   |      |            |
| 2    | 0S-1590     | BOLT (3/8-16X2-IN)                 | 1   |      |            |
| 3    | 5M-2894     | WASHER-HARD (10.2X18.5X2.5-MM THK) | 3   |      |            |

4N-2759 FILTER GP-ENGINE OIL

4N-2759 FILTER GP-ENGINE OIL PART OF 4R-9970 ENGINE AR-CORE

Drawing 1 of 1



| Ref. | Part number | Description                        | Qty | Code | Group page |
|------|-------------|------------------------------------|-----|------|------------|
| 1    | 0S-1590     | BOLT (3/8-16X2-IN)                 | 2   |      |            |
| 2    | 8M-9024     | WASHER-HARD (10.2X22.5X5-MM THK)   | 4   |      |            |
| 3    | 6N-0823     | COVER                              | 1   |      |            |
| 4    | 2P-4305     | GASKET                             | 4   |      |            |
| 5    | 0S-1608     | BOLT (3/8-16X3.75-IN)              | 2   |      |            |
| 6    | 9S-8752     | NUT-FULL (3/8-16-THD)              | 16  |      |            |
| 7    | 5M-2894     | WASHER-HARD (10.2X18.5X2.5-MM THK) | 22  |      |            |
| 8    | 2P-4301     | BASE AS-OIL FILTER                 | 1   |      |            |
|      | 2P-4304     | STUD-HOLLOW                        | 1   |      |            |
| 9    | 0S-1594     | BOLT (3/8-16X1-IN)                 | 2   |      |            |
| 10   | 2P-3761     | COVER                              | 1   |      |            |
| 11   | 4N-8150     | SPRING                             | 1   |      |            |
| 12   | 2P-4303     | BASE AS-OIL FILTER                 | 1   |      |            |
|      | 2P-4304     | STUD-HOLLOW                        | 1   |      |            |

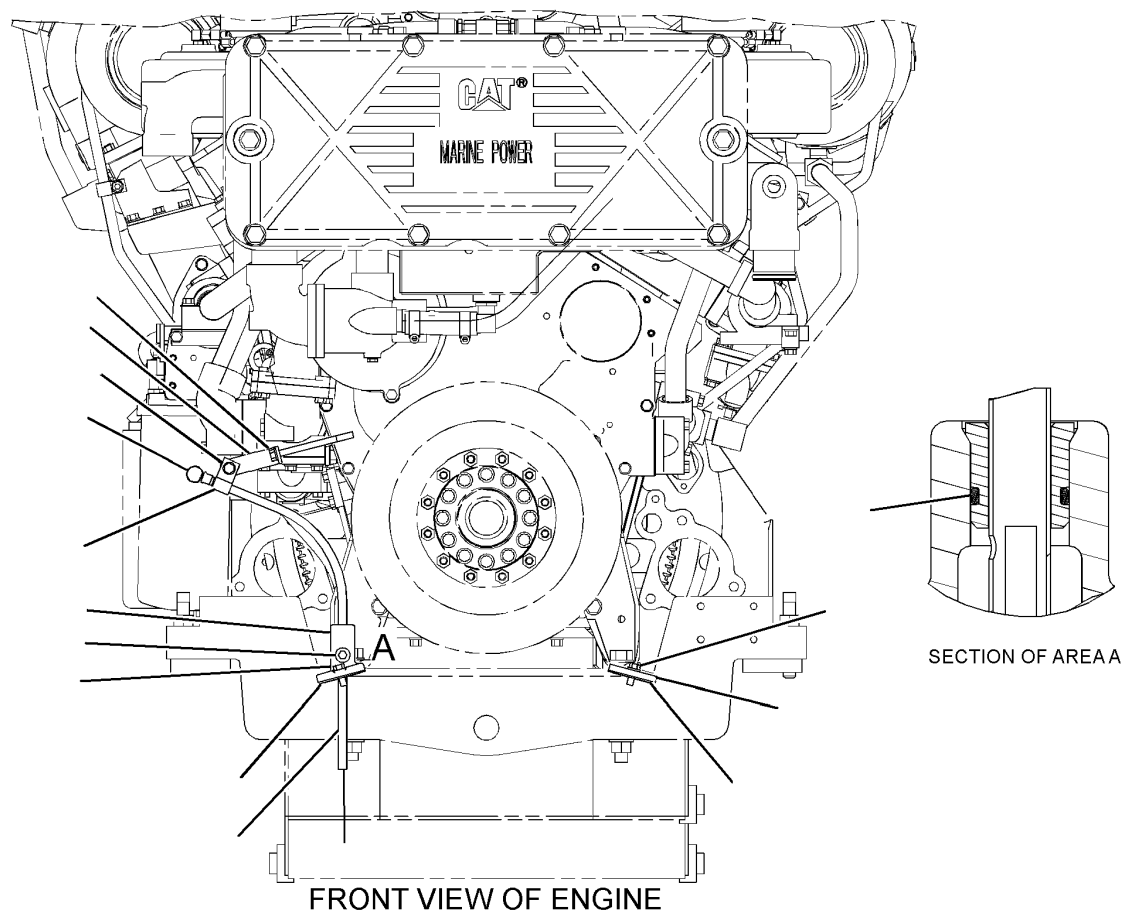
4N-2759 FILTER GP-ENGINE OIL (continued)

| Ref. | Part number | Description                             | Qty | Code | Group page |
|------|-------------|-----------------------------------------|-----|------|------------|
| 13   | 0S-1619     | BOLT (3/8-16X3-IN)                      | 2   |      |            |
| 14   | 8T-6764     | PLUG-PIPE (1/8-27-THD)                  | 3   |      |            |
| 15   | 0S-1591     | BOLT (3/8-16X1.5-IN)                    | 4   |      |            |
| 16   | 155-5160    | COVER AS                                | 1   |      |            |
| 17   | 1R-1808     | FILTER-ENGINE OIL (ADVANCED EFFICIENCY) | 2   |      |            |
| 18   | 4N-7082     | SHIELD-OIL FILTER                       | 2   |      |            |
| 19   | 7F-9090     | SCREW-DRIVE (NO 8X3/8-IN)               | 4   |      |            |
| 20   | 1P-1367     | PLUNGER (RELIEF VALVE)                  | 1   |      |            |
| 21   | 0S-1571     | BOLT (3/8-16X1.75-IN)                   | 2   |      |            |
| 22   | 2P-3760     | GASKET                                  | 1   |      |            |
| 23   | 8C-3446     | VALVE-SAMPLING (ENGINE OIL)             | 1   |      |            |
| 24   | 6V-5048     | SEAL-O-RING                             | 1   |      |            |
| 25   | 8C-3445     | CAP-DUST (FLUID SAMPLING VALVE)         | 1   |      |            |

## 4N-2645 GAUGE GP-OIL LEVEL (DIPSTICK) -ENGINE

4N-2645 GAUGE GP-OIL LEVEL (DIPSTICK) -ENGINE PART OF 4R-9970 ENGINE AR-CORE

Drawing 1 of 1

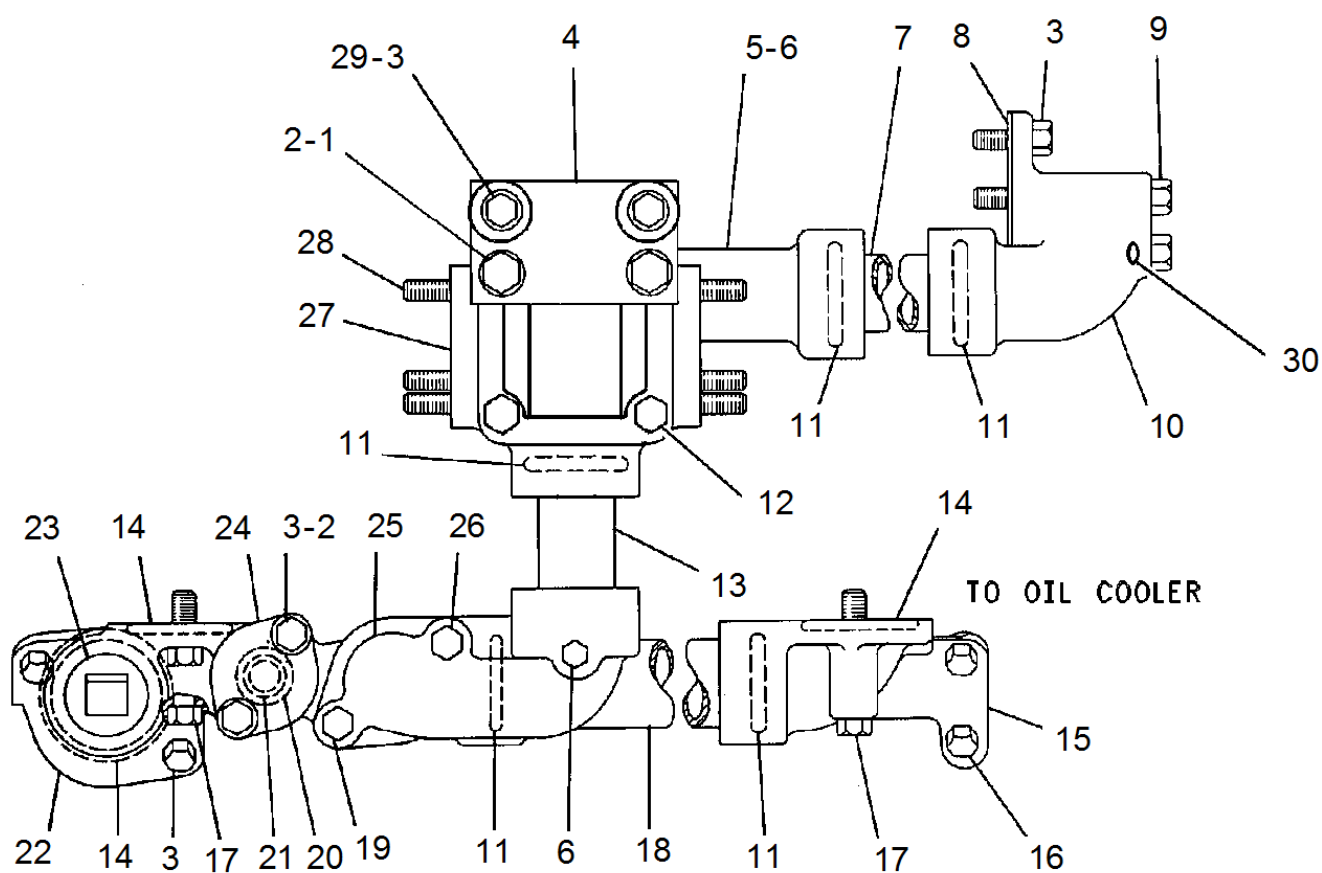


| Ref. | Part number | Description                            | Qty | Code | Group page |
|------|-------------|----------------------------------------|-----|------|------------|
| 1    | 8N-2927     | GAUGE AS-OIL LEVEL (DIPSTICK) (ENGINE) | 1   |      |            |
| 2    | 239-5572    | SEAL-INTEGRAL                          | 2   |      |            |
| 3    | 273-8967    | BRACKET                                | 1   |      |            |
| 4    | 273-8968    | TUBE AS-OIL GAUGE (OIL LEVEL)          | 1   |      |            |
| 5    | 0S-1594     | BOLT (3/8-16X1-IN)                     | 5   |      |            |
| 6    | 118-5068    | SEAL-O-RING                            | 1   |      |            |
| 7    | 124-0174    | CLIP (LOOP)                            | 1   |      |            |
| 8    | 1A-5183     | BOLT (3/8-16X4.75-IN)                  | 1   |      |            |
| 9    | 4N-0794     | COVER                                  | 1   |      |            |
| 10   | 5M-2894     | WASHER-HARD (10.2X18.5X2.5-MM THK)     | 4   |      |            |
| 11   | 6N-4446     | ADAPTER                                | 1   |      |            |
| 12   | 8T-6764     | PLUG-PIPE (1/8-27-THD)                 | 2   |      |            |
| 13   | 9S-8752     | NUT-FULL (3/8-16-THD)                  | 1   |      |            |
| 14   | 9X-6458     | WASHER-HARD (10.2X22.5X3-MM THK)       | 1   |      |            |

## 4N-2646 LINES GP-ENGINE OIL

4N-2646 LINES GP-ENGINE OIL PART OF 4R-9970 ENGINE AR-CORE

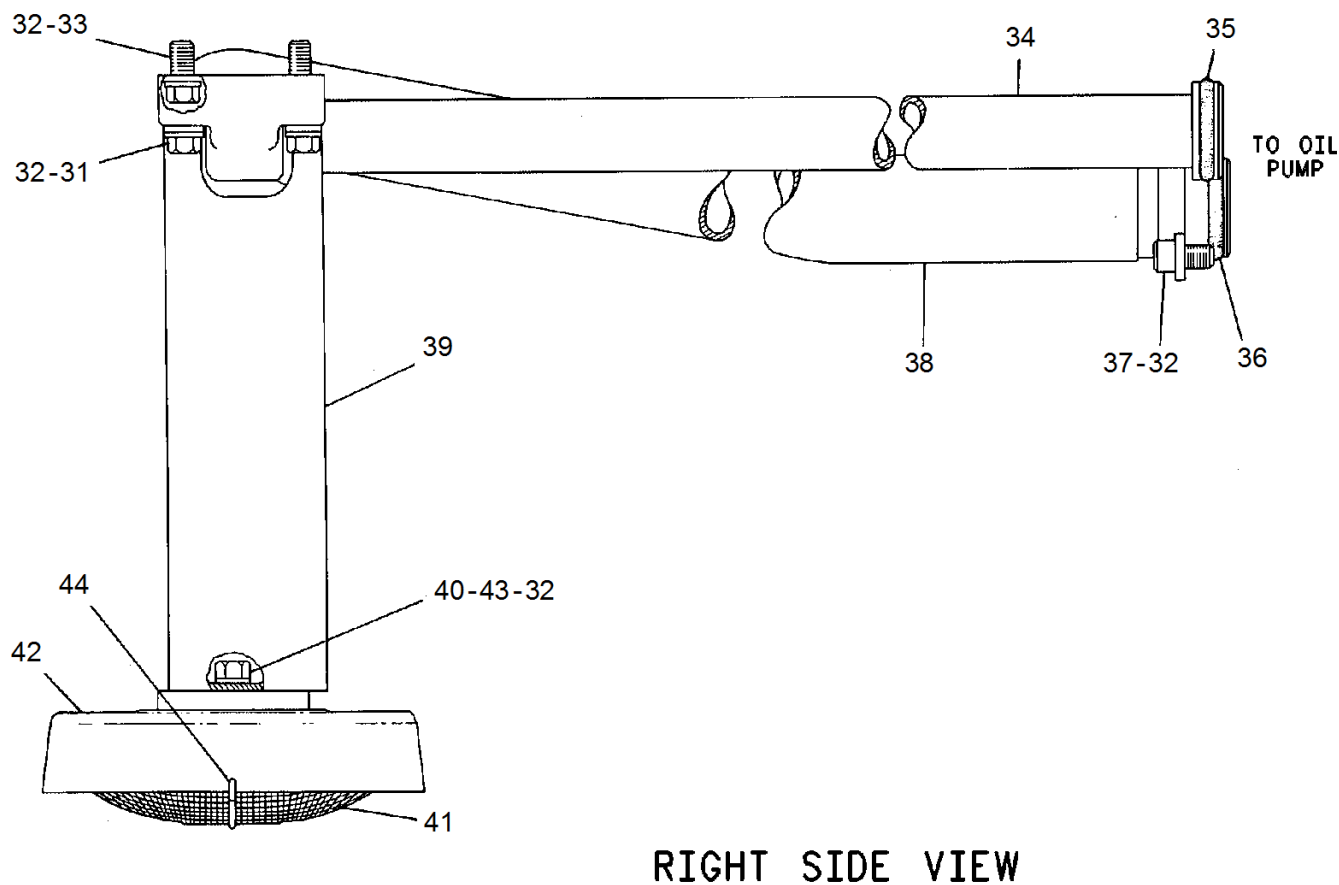
Drawing 1 of 2



RIGHT SIDE VIEW

## 4N-2646 LINES GP-ENGINE OIL (continued)

Drawing 2 of 2



| Ref. | Part number | Description                        | Qty | Code | Group page |
|------|-------------|------------------------------------|-----|------|------------|
| 1    | 5B-2638     | BOLT (3/8-16X5.25-IN)              | 2   |      |            |
| 2    | 5M-2894     | WASHER-HARD (10.2X18.5X2.5-MM THK) | 3   |      |            |
| 3    | 0S-1594     | BOLT (3/8-16X1-IN)                 | 8   |      |            |
| 4    | 6N-0827     | PLATE                              | 1   |      |            |
| 5    | 6N-0822     | ELBOW                              | 1   |      |            |
| 6    | 8T-6764     | PLUG-PIPE (1/8-27-THD)             | 2   |      |            |
| 7    | 6N-0628     | TUBE                               | 1   |      |            |
| 8    | 4N-1684     | GASKET                             | 1   |      |            |
| 9    | 0L-1352     | BOLT (3/8-16X3.25-IN)              | 2   |      |            |
| 10   | 125-4362    | ELBOW                              | 1   |      |            |
| 11   | 109-0078    | SEAL-O-RING                        | 6   | C    |            |
| 12   | 5B-9603     | BOLT (3/8-16X5-IN)                 | 2   |      |            |
| 13   | 2W-8438     | TUBE                               | 1   | C    |            |
| 14   | 109-0076    | SEAL-O-RING                        | 3   |      |            |
| 15   | 6N-0452     | ELBOW-COOLER OUTLET                | 1   |      |            |

## 4N-2646 LINES GP-ENGINE OIL (continued)

| Ref. | Part number | Description                        | Qty | Code | Group page |
|------|-------------|------------------------------------|-----|------|------------|
| 16   | 1A-2029     | BOLT (3/8-16X1.125-IN)             | 2   |      |            |
| 17   | 0L-2070     | BOLT (3/8-16X2.25-IN)              | 3   |      |            |
| 18   | 6N-0624     | TUBE AS-OUTLET                     | 1   |      |            |
| 19   | 0S-1591     | BOLT (3/8-16X1.5-IN)               | 1   |      |            |
| 20   | 9M-0853     | PLUNGER-VALVE                      | 1   | C    |            |
| 21   | 4N-8150     | SPRING                             | 1   |      |            |
| 22   | 6N-4722     | BODY                               | 1   |      |            |
| 23   | 7X-7730     | PLUG-PIPE                          | 1   |      |            |
| 24   | 2P-3761     | COVER                              | 1   |      |            |
|      | 2P-3760     | GASKET                             | 1   |      |            |
| 25   | 6N-3880     | ELBOW-OUTLET                       | 1   |      |            |
|      | 4N-0933     | GASKET                             | 1   |      |            |
| 26   | 0L-1143     | BOLT (3/8-16X2.5-IN)               | 1   |      |            |
| 27   | 6N-0821     | HOUSING                            | 1   |      |            |
|      | 6N-0824     | GASKET                             | 1   |      |            |
| 28   | 8M-1047     | STUD-TAPERLOCK (3/8-16X1.67-IN)    | 8   | C    |            |
| 29   | 8M-7145     | WASHER (10.2X28.5X5-MM THK)        | 2   | C    |            |
| 30   | 8T-6757     | PLUG-PIPE                          | 1   |      |            |
| 31   | 0S-1571     | BOLT (3/8-16X1.75-IN)              | 2   |      |            |
| 32   | 5M-2894     | WASHER-HARD (10.2X18.5X2.5-MM THK) | 8   | C    |            |
| 33   | 0S-0509     | BOLT (3/8-16X0.75-IN)              | 2   |      |            |
| 34   | 4N-2378     | TUBE AS                            | 1   |      |            |
| 35   | 109-0078    | SEAL-O-RING                        | 1   | C    |            |
| 36   | 8J-4351     | SEAL-O-RING                        | 1   | C    |            |
| 37   | 1L-0509     | BOLT (3/8-16X0.74-IN)              | 1   |      |            |
| 38   | 6N-7333     | TUBE AS-PUMP SUCTION               | 1   |      |            |
| 39   | 6N-1050     | SUPPORT-BELL                       | 1   |      |            |
| 40   | 1A-2029     | BOLT (3/8-16X1.125-IN)             | 2   |      |            |
| 41   | 4N-0913     | SCREEN-STRAINER (ENGINE OIL LINES) | 1   |      |            |
| 42   | 8N-2104     | BELL AS-SUCTION                    | 1   | C    |            |
|      | 9F-2978     | NUT-WELD (3/8-16-THD)              | 2   |      |            |
| 43   | 9F-2978     | NUT-WELD (3/8-16-THD)              | 2   |      |            |
| 44   | 4N-0914     | CLIP                               | 1   |      |            |

CAT codes: C.

4P-0445 LINES GP-SUMP

4P-0445 LINES GP-SUMP PART OF 4R-9980 ENGINE AR-COMplete FOR USE WITH CUSTOMER SUPPLIED MARINE GEAR WITH SAE NO. 0 OR NO. 1 FLYWHEEL HOUSING

Kit / parts list. The current source card does not provide a separate drawing.

| Ref. | Part number | Description                            | Qty | Code | Group page |
|------|-------------|----------------------------------------|-----|------|------------|
|      | 5B-4855     | BUSHING-REDUCER (TO TRANSMISSION SUMP) | 1   |      |            |
|      | 3B-7259     | ELBOW (TO BUSHING)                     | 1   |      |            |
|      | 3N-7294     | HOSE AS (ELBOW TO SUMP PUMP)           | 1   | I    |            |

CAT codes: I.

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