

GFL0108500

30 Apr 2024

0 0 N/A N/A ABNORMAL History1

History2

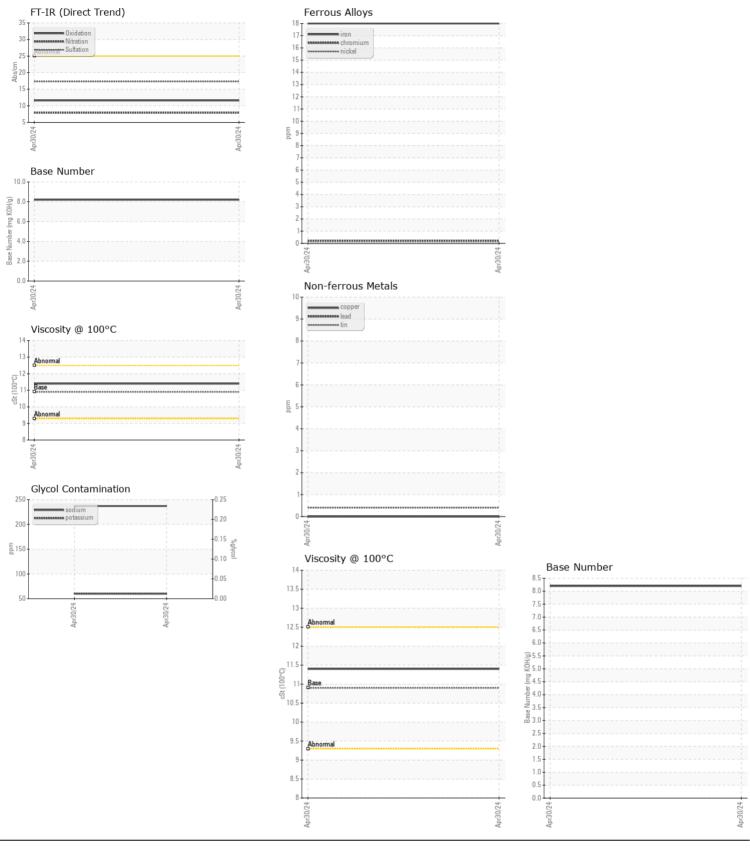
Machine Id 350051 ponen 1 Gasoline Engine GASOLINE ENGINE OIL SAE 5W30 (6 GAL) DECOMMENDATION

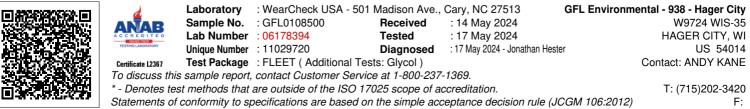
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current |
|--|----------------|----------|-------------|-----------|-------------|
| | Sample Number | | Client Info | | GFL010850 |
| We advise that you check for the source of the coolant leak. Check for | Sample Date | | Client Info | | 30 Apr 2024 |
| low coolant level. We recommend an early resample to monitor this condition. | Machine Age | mls | Client Info | | 285245 |
| condition. | Oil Age | mls | Client Info | | 0 |
| | Filter Age | mls | Client Info | | 0 |
| | Oil Changed | | Client Info | | N/A |
| | Filter Changed | | Client Info | | N/A |
| | Sample Status | | | | ABNORMA |
| WEAR | Iron | ppm | ASTM D5185m | >150 | 18 |
| | Chromium | ppm | ASTM D5185m | >20 | <1 |
| All component wear rates are normal. | Nickel | ppm | ASTM D5185m | >5 | 0 |
| | Titanium | ppm | ASTM D5185m | | 0 |
| | Silver | ppm | ASTM D5185m | >2 | 0 |
| | Aluminum | ppm | ASTM D5185m | >40 | 2 |
| | Lead | ppm | ASTM D5185m | >50 | 0 |
| | Copper | ppm | ASTM D5185m | >155 | 0 |
| | Tin | ppm | ASTM D5185m | >10 | <1 |
| | Vanadium | ppm | ASTM D5185m | | 0 |
| | White Metal | scalar | *Visual | NONE | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >30 | 9 |
| | Potassium | ppm | ASTM D5185m | >20 | <u> </u> |
| Sodium and/or potassium levels are high. | Fuel | | WC Method | >4.0 | <1.0 |
| | Water | | WC Method | >0.2 | NEG |
| | Glycol | % | *ASTM D2982 | | NEG |
| | Soot % | % | *ASTM D7844 | | 0 |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 7.9 |
| | Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 17.3 |
| | Silt | scalar | *Visual | NONE | NONE |
| | Debris | scalar | *Visual | NONE | NONE |
| | Sand/Dirt | scalar | *Visual | NONE | NONE |
| | | | | | |

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil.

| Silver | ppm | ASTM D5185m | >2 | 0 |) | |
|-------------------|-----------------|-------------------------|-------|---|-------------|------|
| Aluminum | ppm | ASTM D5185m | >40 | 2 | 2 | |
| Lead | ppm | ASTM D5185m | >50 | 0 |) | |
| Copper | ppm | ASTM D5185m | >155 | 0 |) | |
| Tin | ppm | ASTM D5185m | >10 | < | :1 | |
| Vanadium | ppm | ASTM D5185m | | 0 |) | |
| White Metal | scalar | *Visual | NONE | Ν | IONE | |
| Yellow Metal | scalar | *Visual | NONE | Ν | IONE | |
| | | | | | | |
| Silicon | ppm | ASTM D5185m | >30 | 9 | | |
| Potassium | ppm | ASTM D5185m | >20 | - | 50 | |
| Fuel | | WC Method | >4.0 | | :1.0 | |
| Water | | WC Method | >0.2 | | IEG | |
| Glycol | % | *ASTM D2982 | | Ν | IEG | |
| Soot % | % | *ASTM D7844 | | 0 |) | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7 | ' .9 | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 1 | 7.3 | |
| Silt | scalar | *Visual | NONE | N | IONE | |
| Debris | scalar | *Visual | NONE | Ν | ONE | |
| Sand/Dirt | scalar | *Visual | NONE | N | ONE | |
| Appearance | scalar | *Visual | NORML | Ν | ORML | |
| Odor | scalar | *Visual | NORML | Ν | IORML | |
| Emulsified Water | scalar | *Visual | >0.2 | N | IEG | |
| | | | | | | |
| Sodium | ppm | ASTM D5185m | >400 | | 237 | |
| Boron | ppm | ASTM D5185m | 75 | | 2 | |
| Barium | ppm | ASTM D5185m | 5 | | :1 | |
| Molybdenum | ppm | ASTM D5185m | 100 | | 32 | |
| Manganese | ppm | ASTM D5185m | | | :1 | |
| Magnesium | ppm | ASTM D5185m | 12 | | 05 | |
| Calcium | ppm | ASTM D5185m | 2100 | | 2110 | |
| Phosphorus | ppm | ASTM D5185m | 650 | | 89 | |
| Zinc | ppm | ASTM D5185m | 850 | 1 | 117 | |
| Sulfur | ppm | ASTM D5185m | 2500 | 3 | 993 | |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | | 1.6 | |
| Deee Number (DNI) | | LOTH DOGO | | 0 | | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | C | 3.2 | |
| Visc @ 100°C | mg KOH/g cSt | ASTM D2896 ASTM D445 | 10.9 | | 5.2 1.4 | |





Submitted By: See also GFL904,A,B,C, 927, 938 - Andy Kane Page 2 of 2