

OIL ANALYSIS REPORT

Sample Rating Trend



G87 Component Diesel Engine Fluid

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Machine Id

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

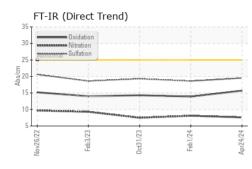
Fluid Condition

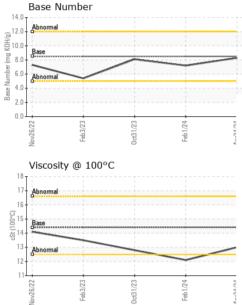
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|------------------|----------|-------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | WC0841428 | WC0841411 | WC0841472 |
| Sample Date | | Client Info | | 24 Apr 2024 | 01 Feb 2024 | 31 Oct 2023 |
| Machine Age | hrs | Client Info | | 8804 | 8276 | 7874 |
| Oil Age | hrs | Client Info | | 518 | 621 | 752 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| CONTAMINATION | ٧ | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >3.0 | <1.0 | 0.6 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | 20.2 | NEG | NEG | NEG |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| | | | | | | |
| Iron | ppm | | >120 | 4 | 7 | 9 |
| Chromium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | <1 | | |
| Lead | ppm | ASTM D5185m | >40 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | | 0 | 1 | 1 |
| Tin | ppm | ASTM D5185m | >15 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 250 | 13 | 11 | 7 |
| Barium | ppm | ASTM D5185m | 10 | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185m | 100 | 52 | 68 | 62 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 450 | 762 | 760 | 761 |
| Calcium | ppm | ASTM D5185m | 3000 | 1255 | 1075 | 1202 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 920 | 940 | 907 |
| Zinc | ppm | ASTM D5185m | 1350 | 1070 | 1065 | 1158 |
| Sulfur | ppm | ASTM D5185m | 4250 | 3253 | 3013 | 3336 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 2 | 2 | 4 |
| Sodium | ppm | ASTM D5185m | >158 | 1 | <1 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 2 | 2 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >4 | 0.3 | 0.4 | 0.4 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.6 | 8.1 | 7.5 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.5 | 18.6 | 19.3 |
| FLUID DEGRADA | | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.7 | 13.9 | 14.3 |
| | | | | | | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 8.5 | 8.3 | 7.2 | 8.1 |

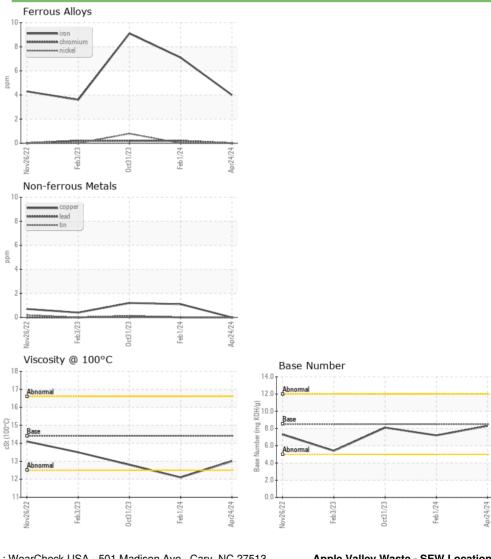


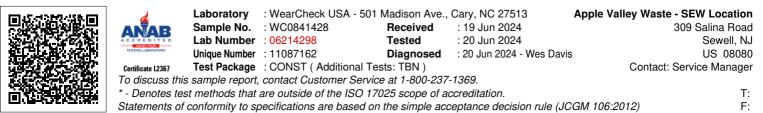
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| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPERT | IES | method | limit/base | current | history1 | history2 |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 13.0 | 12.1 | 12.8 |
| GRAPHS | | | | | | |





Contact/Location: Service Manager - AVWSEW