

OIL ANALYSIS REPORT

Sample Rating Trend



(24552UA) 811009 Component

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

Oil Age

Fuel

Water

Glycol

Iron

Chromium

Nickel

Silver

Lead

Tin

Copper

Vanadium

Cadmium

Boron

Barium

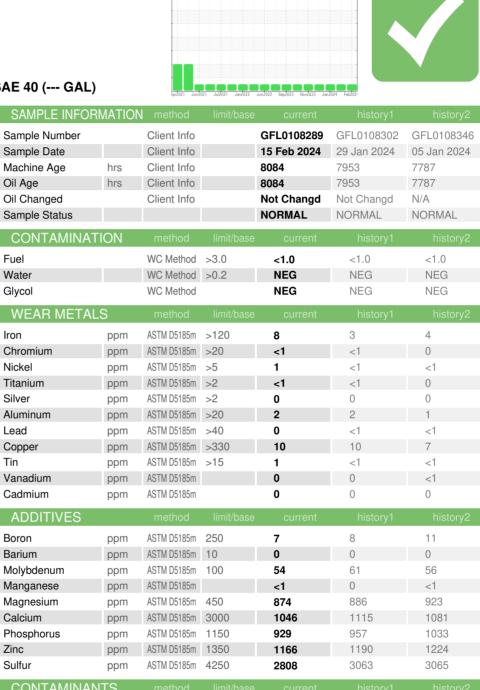
Calcium

Zinc

Sulfur

Titanium

Aluminum



| CONTAMINANTS | | method | | | | history2 |
|--------------|-----|-------------|------|---|---|----------|
| Silicon | ppm | ASTM D5185m | >25 | 4 | 2 | 3 |
| Sodium | ppm | ASTM D5185m | >216 | 1 | 0 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 3 | 1 |

| INFRA-RED | | method | limit/base | current | history1 | history2 |
|------------------|----------|-------------|------------|---------|----------|----------|
| Soot % | % | *ASTM D7844 | >4 | 0.5 | 0.4 | 0.3 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.3 | 7.1 | 6.1 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.5 | 18.5 | 18.0 |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 14.9 | 13.9 | 13.3 |
| Base Number (BN) | ma KOH/a | ASTM D2896 | 8.5 | 6.3 | 7.8 | 8.3 |

DIAGNOSIS Recommendation

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

Wear

All component wear rates are normal.

Contamination

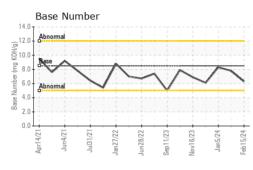
There is no indication of any contamination in the oil

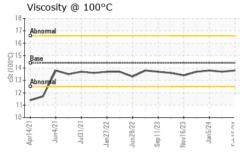
Fluid Condition

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

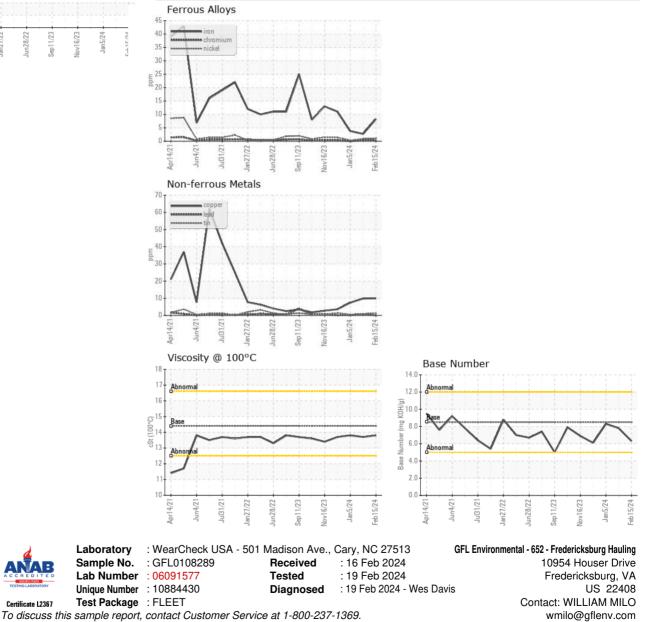


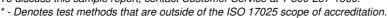
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| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | 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 PROPE | RTIES | method | limit/base | current | history1 | history2 |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 13.8 | 13.7 | 13.8 |
| GRAPHS | | | | | | |





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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