



| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
39118
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

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

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | IL0030987 | IL05887750 | --- |
| Sample Date | | Client Info | | 14 Mar 2024 | 09 May 2023 | --- |
| Machine Age | mls | Client Info | | 5317 | 819 | --- |
| Oil Age | mls | Client Info | | 0 | 500 | --- |
| Filter Age | mls | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | N/A | N/A | --- |
| Filter Changed | | Client Info | | N/A | N/A | --- |
| Sample Status | | | | NORMAL | MARGINAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|-------------|------|-----|
| Iron | ppm | ASTM D5185m | >100 | 10 | 59 | --- |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 1 | --- |
| Nickel | ppm | ASTM D5185m | >4 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 4 | 8 | --- |
| Lead | ppm | ASTM D5185m | >40 | 0 | 0 | --- |
| Copper | ppm | ASTM D5185m | >330 | 0 | 4 | --- |
| Tin | ppm | ASTM D5185m | >15 | 0 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

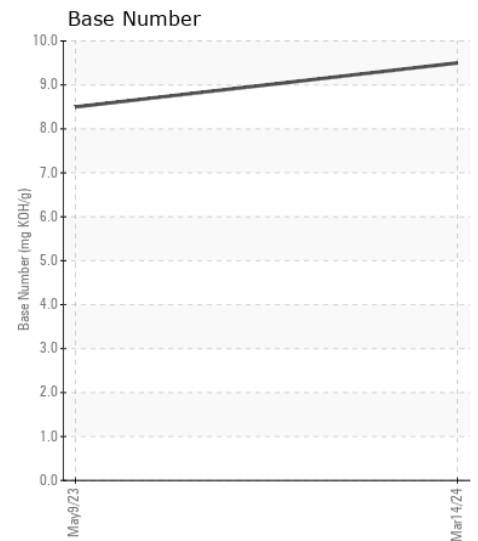
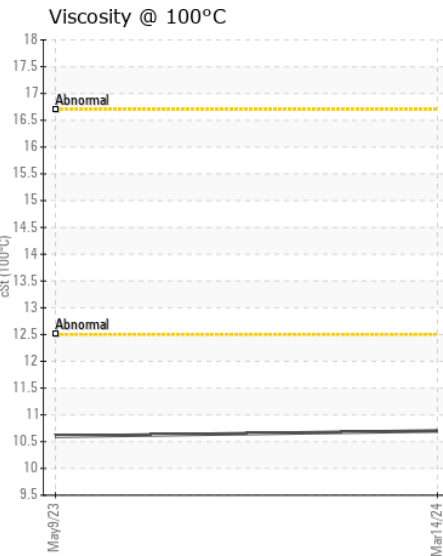
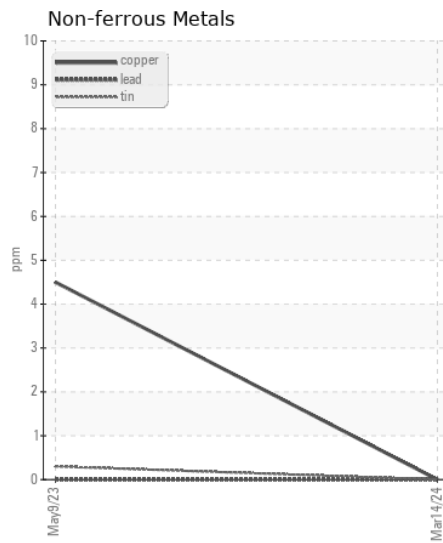
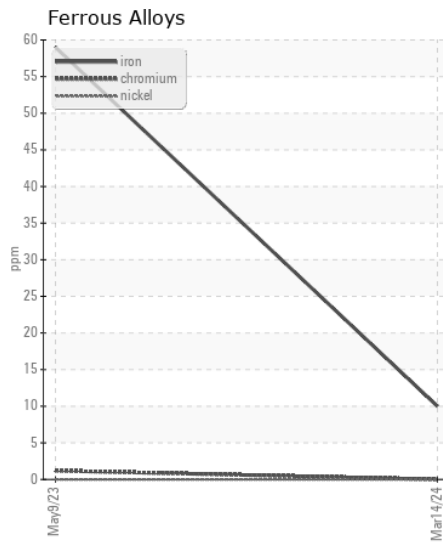
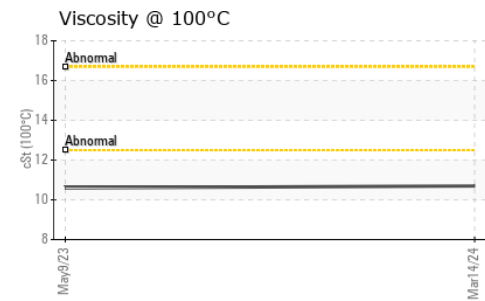
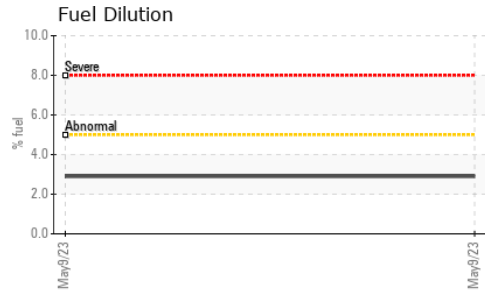
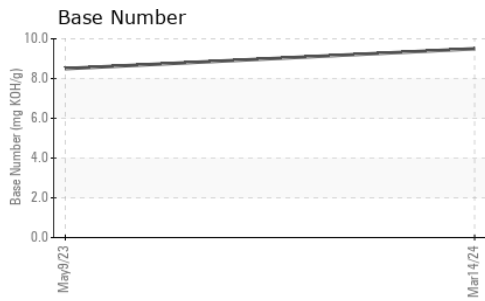
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >25 | 8 | 13 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 8 | 10 | --- |
| Fuel | % | ASTM D3524 | >5 | <1.0 | ▲ 2.9 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | | WC Method | | NEG | NEG | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.3 | 1 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 6.3 | 10.8 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 21.4 | 22.6 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | --- |

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.

| | | | | | | |
|------------------|----------|-------------|-----|-------------|------|-----|
| Sodium | ppm | ASTM D5185m | | 2 | 2 | --- |
| Boron | ppm | ASTM D5185m | | 58 | 40 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | 44 | 46 | --- |
| Manganese | ppm | ASTM D5185m | | 0 | 2 | --- |
| Magnesium | ppm | ASTM D5185m | | 513 | 485 | --- |
| Calcium | ppm | ASTM D5185m | | 1735 | 1533 | --- |
| Phosphorus | ppm | ASTM D5185m | | 815 | 710 | --- |
| Zinc | ppm | ASTM D5185m | | 937 | 887 | --- |
| Sulfur | ppm | ASTM D5185m | | 3023 | 2542 | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 19.0 | 22.0 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 9.5 | 8.5 | --- |
| Visc @ 100°C | cSt | ASTM D445 | | 10.7 | 10.6 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : IL0030987

Lab Number : 06123356

Unique Number : 10937507

Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 20 Mar 2024

Tested : 22 Mar 2024

Diagnosed : 22 Mar 2024 - Sean Felton

IDEALRELEASE OF ATLANTA - FULTON

4675 BAKERS FERRY ROAD

ATLANTA, GA

US 30331

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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