



OIL ANALYSIS REPORT

| | |
|-----------------|-----------|
| WEAR | NORMAL |
| CONTAMINATION | MARGINAL |
| FLUID CONDITION | ATTENTION |

Machine Id
HINO 8464619
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (17 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | RPL0021085 | RPL0017897 | RPL0015836 |
| Sample Date | | Client Info | | 18 May 2024 | 17 Feb 2024 | 28 Oct 2023 |
| Machine Age | mls | Client Info | | 107057 | 101057 | 87615 |
| Oil Age | mls | Client Info | | 6085 | 22095 | 8653 |
| Filter Age | mls | Client Info | | 6085 | 22095 | 8653 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Sample Status | | | | ATTENTION | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 12 | 29 | 16 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | <1 | <1 | <1 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 4 | 2 |
| Lead | ppm | ASTM D5185m | >40 | 2 | 11 | 3 |
| Copper | ppm | ASTM D5185m | >330 | 1 | 4 | 2 |
| Tin | ppm | ASTM D5185m | >15 | <1 | 1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

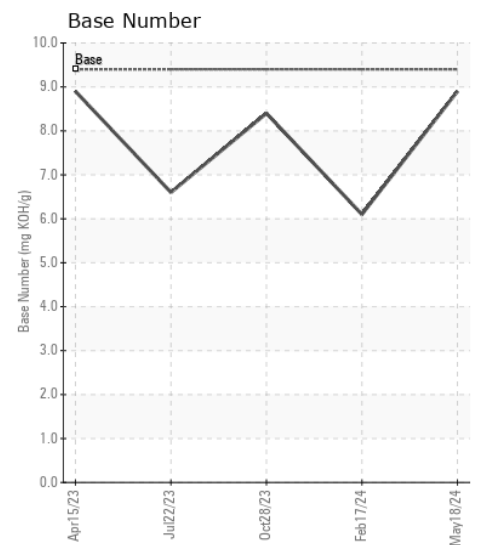
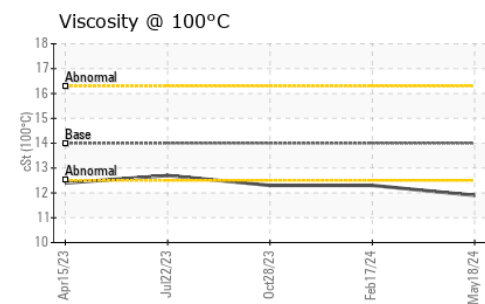
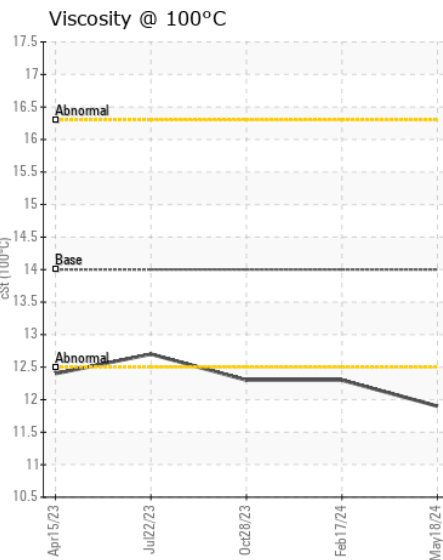
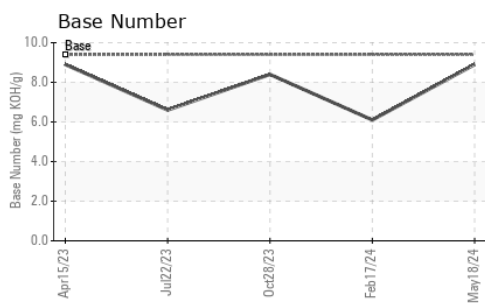
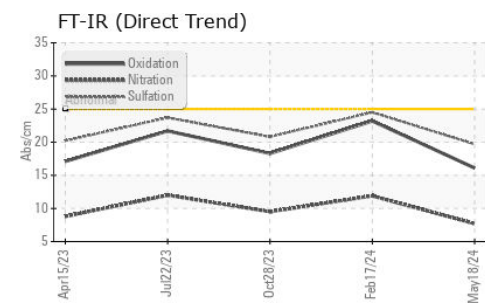
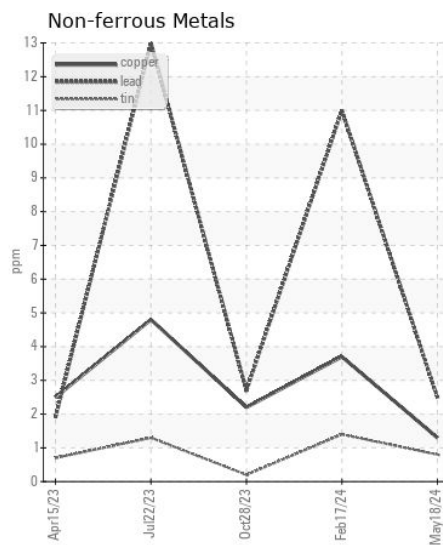
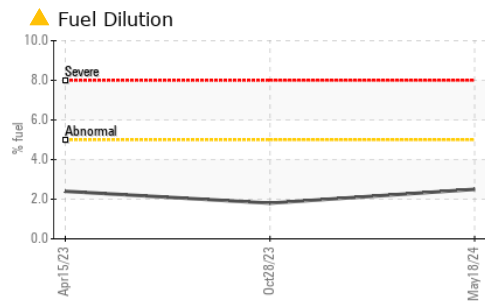
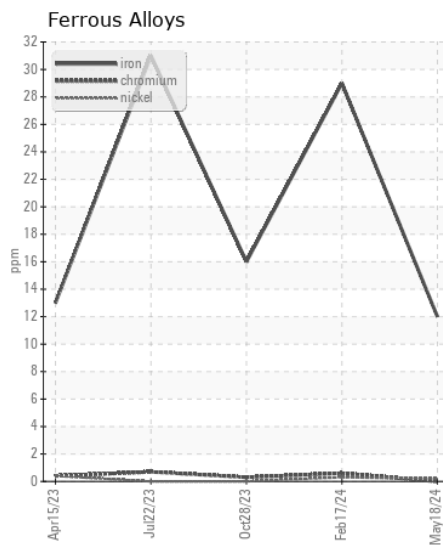
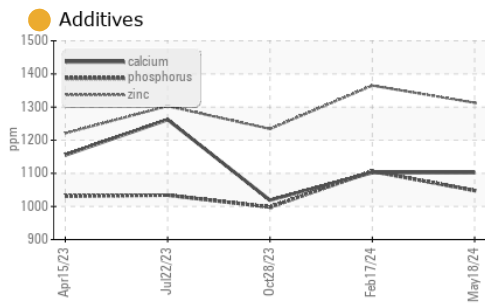
Light fuel dilution occurring. No other contaminants were detected in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 4 | 4 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 3 | 3 |
| Fuel | % | ASTM D3524 | >5 | ▲ 2.5 | <1.0 | 1.8 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.3 | 0.8 | 0.4 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.7 | 11.9 | 9.5 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.7 | 24.5 | 20.8 |
| 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 |

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. 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 | <1 |
| Boron | ppm | ASTM D5185m | 0 | 4 | 4 | 0 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 62 | 64 | 60 |
| Manganese | ppm | ASTM D5185m | | <1 | 1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | ● 1015 | 1014 | 957 |
| Calcium | ppm | ASTM D5185m | | ● 1102 | 1102 | 1019 |
| Phosphorus | ppm | ASTM D5185m | | 1048 | 1106 | 998 |
| Zinc | ppm | ASTM D5185m | | ● 1313 | 1365 | 1234 |
| Sulfur | ppm | ASTM D5185m | | 3710 | 3242 | 3305 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.1 | 23.2 | 18.3 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.4 | 8.9 | 6.1 | 8.4 |
| Visc @ 100°C | cSt | ASTM D445 | 14 | 11.9 | 12.3 | 12.3 |



Certificate L2367

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

Sample No. : RPL0021085

Lab Number : 06190196

Unique Number : 11046948

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

Received : 24 May 2024

Tested : 30 May 2024

Diagnosed : 30 May 2024 - Wes Davis

RTL PACLEASE - 7006 - Pico Rivera

7837 Telegraph Rd

Pico Rivera, CA

US 90660

Contact: GERARDO CARROLA

carrolag@rushenterprises.com

T:

F:

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)