



OIL ANALYSIS REPORT

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

Machine Id
PETERBILT 846-4363
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER15W40 (11 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | RPL0019327 | RPL0017580 | RPL0016289 |
| Sample Date | | Client Info | | 17 Apr 2024 | 26 Jan 2024 | 31 Oct 2023 |
| Machine Age | mls | Client Info | | 189847 | 182796 | 175299 |
| Oil Age | mls | Client Info | | 7051 | 7497 | 9063 |
| Filter Age | mls | Client Info | | 7051 | 7497 | 9063 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >110 | 13 | 13 | 12 |
| Chromium | ppm | ASTM D5185m | >4 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | 1 | 1 |
| Lead | ppm | ASTM D5185m | >45 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >85 | 0 | 1 | 0 |
| Tin | ppm | ASTM D5185m | >4 | <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

There is no indication of any contamination in the oil.

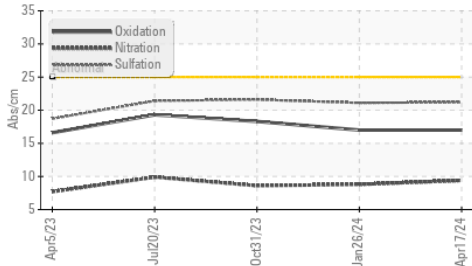
| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >30 | 4 | 4 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 3 | <1 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.8 | 0.7 | 0.5 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.4 | 8.8 | 8.6 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 21.2 | 21.1 | 21.6 |
| 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

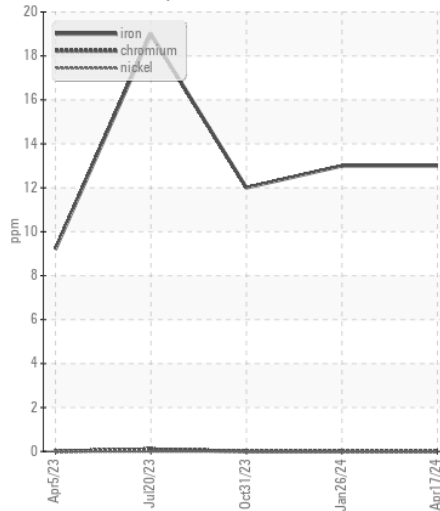
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|-----|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 2 | 0 | <1 |
| Boron | ppm | ASTM D5185m | 0 | 2 | 1 | 3 |
| Barium | ppm | ASTM D5185m | 0 | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 63 | 63 | 60 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 0 | 991 | 954 | 994 |
| Calcium | ppm | ASTM D5185m | | 1146 | 1098 | 1066 |
| Phosphorus | ppm | ASTM D5185m | | 1128 | 1043 | 1086 |
| Zinc | ppm | ASTM D5185m | | 1293 | 1247 | 1339 |
| Sulfur | ppm | ASTM D5185m | | 3645 | 3395 | 3260 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 17.0 | 17.0 | 18.3 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.4 | 9.4 | 9.4 | 9.1 |
| Visc @ 100°C | cSt | ASTM D445 | 14 | 12.9 | 12.9 | 13.1 |

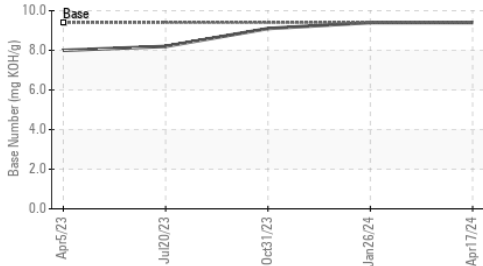
FT-IR (Direct Trend)



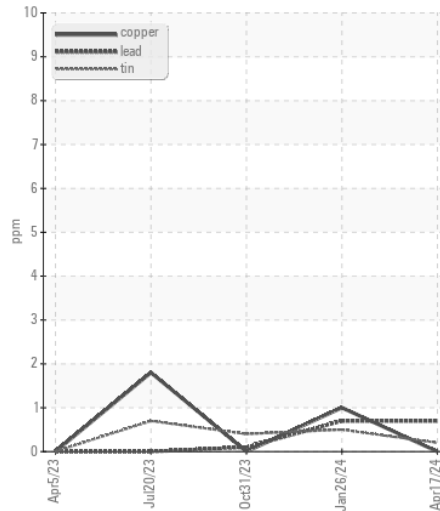
Ferrous Alloys



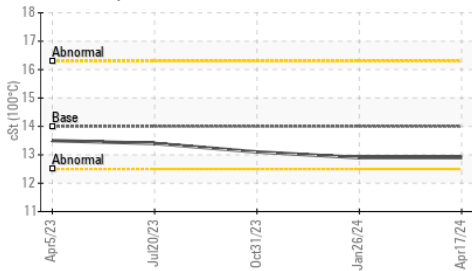
Base Number



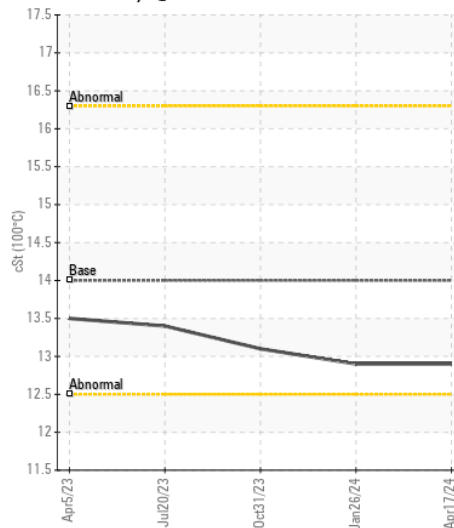
Non-ferrous Metals



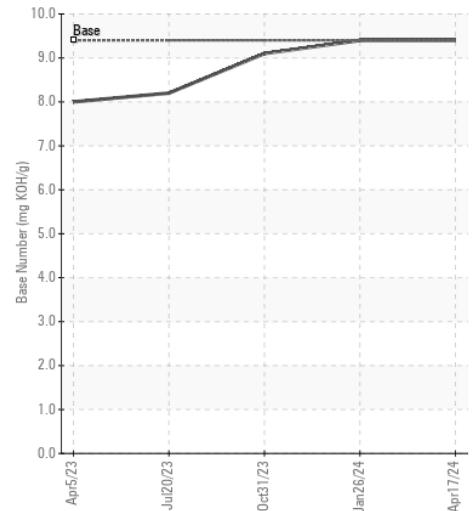
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0019327
Lab Number : 06175338
Unique Number : 11021391
Test Package : FLEET

Received : 10 May 2024
Tested : 13 May 2024
Diagnosed : 13 May 2024 - Sean Felton

RTL PACLEASE - 7006 - Pico Rivera
 7837 Telegraph Rd
 Pico Rivera, CA
 US 90660

Contact: GERARDO CARROLA
 carrolag@rushenterprises.com

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)

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