



OIL ANALYSIS REPORT

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

Machine Id
PETERBILT 9571518
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER15W40 (45 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | RPL0015920 | RPL0006295 | RPL0000992 |
| Sample Date | | Client Info | | 28 May 2024 | 22 Feb 2023 | 24 Aug 2022 |
| Machine Age | mls | Client Info | | 0 | 193100 | 166081 |
| Oil Age | mls | Client Info | | 0 | 193100 | 14544 |
| Filter Age | mls | Client Info | | 0 | 193100 | 14544 |
| Oil Changed | | Client Info | | N/A | Changed | Changed |
| Filter Changed | | Client Info | | N/A | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 11 | 18 | 9 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >20 | 4 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >40 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >330 | 1 | 2 | 1 |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 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.

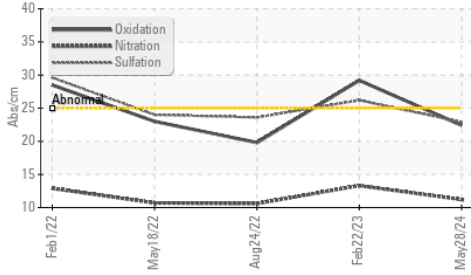
| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 7 | 8 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 2 | 2 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.3 | 0.4 | 0.3 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 11.2 | 13.3 | 10.6 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.9 | 26.2 | 23.6 |
| 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

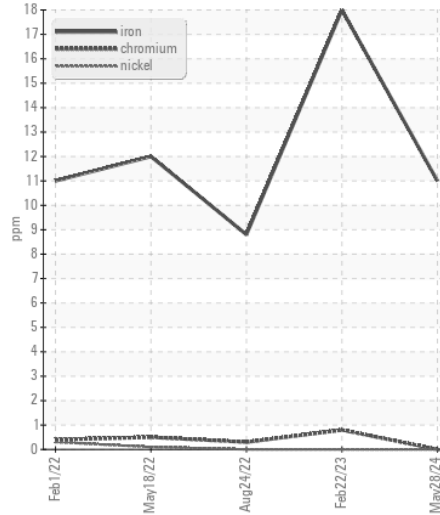
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|-----|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 3 | 2 | 0 |
| Boron | ppm | ASTM D5185m | 0 | 18 | 14 | 5 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 113 | 58 | 64 |
| Manganese | ppm | ASTM D5185m | | <1 | 1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | 679 | 603 | 860 |
| Calcium | ppm | ASTM D5185m | | 1345 | 1577 | 1115 |
| Phosphorus | ppm | ASTM D5185m | | 801 | 747 | 973 |
| Zinc | ppm | ASTM D5185m | | 897 | 997 | 1192 |
| Sulfur | ppm | ASTM D5185m | | 3131 | 2534 | 2969 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 22.4 | 29.2 | 19.8 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.4 | 5.2 | 4.1 | 8 |
| Visc @ 100°C | cSt | ASTM D445 | 14 | 13.9 | 14.1 | 13.7 |

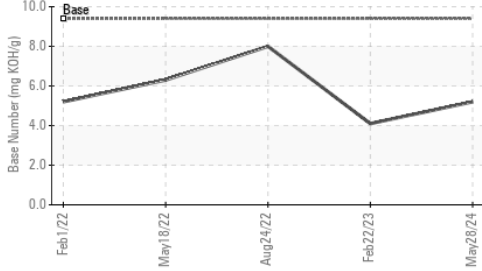
FT-IR (Direct Trend)



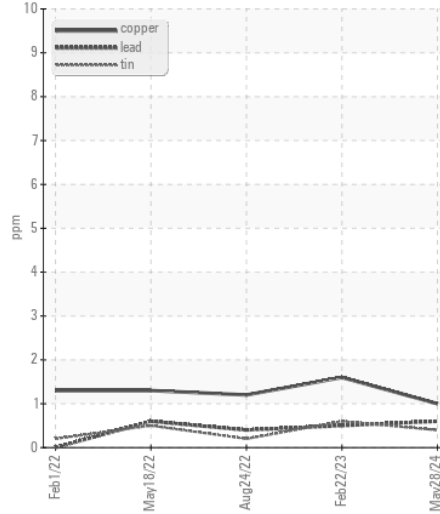
Ferrous Alloys



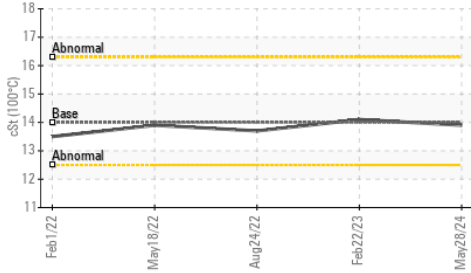
Base Number



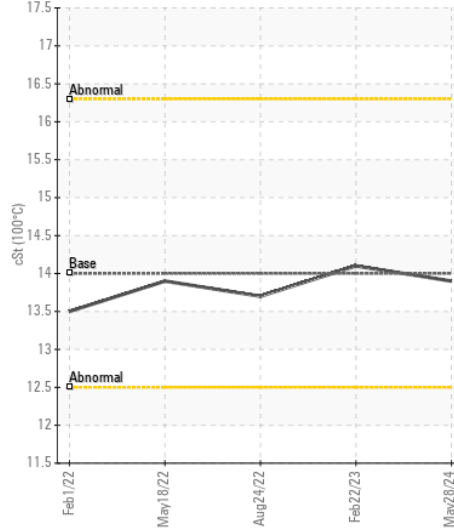
Non-ferrous Metals



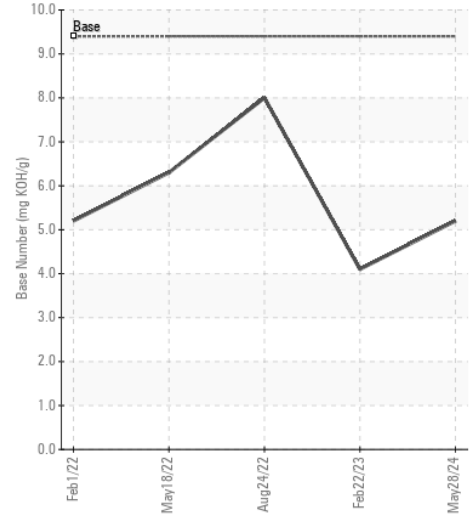
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

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

Sample No. : RPL0015920

Lab Number : 06193747

Unique Number : 11050499

Test Package : FLEET

Received : 29 May 2024

Tested : 30 May 2024

Diagnosed : 30 May 2024 - Wes Davis

RTL PACLEASE - 7004 - Austin

1205 Smith Road

Austin, TX

US 78721

Contact: David Johnson

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T: (512)401-7063

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)