



WEAR **NORMAL**

CONTAMINATION **NORMAL**

FLUID CONDITION **NORMAL**

OIL ANALYSIS REPORT

Area

[44952587]

Machine Id

PETERBILT 9571697

Component

Diesel Engine

Fluid

MOBIL DELVAC MX 15W40 (48 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|----------|
| Sample Number | | Client Info | | RPL0016520 | RPL0013577 | --- |
| Sample Date | | Client Info | | 26 Jun 2024 | 16 Aug 2023 | --- |
| Machine Age | mls | Client Info | | 58042 | 35360 | --- |
| Oil Age | mls | Client Info | | 34347 | 35360 | --- |
| Filter Age | mls | Client Info | | 34347 | 35360 | --- |
| Oil Changed | | Client Info | | Not Changd | Not Changd | --- |
| Filter Changed | | Client Info | | Not Changd | Not Changd | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|-------------|------|------|-------|-----|
| Iron | ppm | ASTM D5185m | >100 | 28 | 23 | --- |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >4 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | --- |
| Silver | ppm | ASTM D5185m | >3 | <1 | <1 | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 9 | 11 | --- |
| Lead | ppm | ASTM D5185m | >40 | 0 | 0 | --- |
| Copper | ppm | ASTM D5185m | >330 | 9 | 7 | --- |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | --- |
| White Metal | scalar | *Visual | NONE | NONE | LIGHT | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

There is no indication of any contamination in the oil.

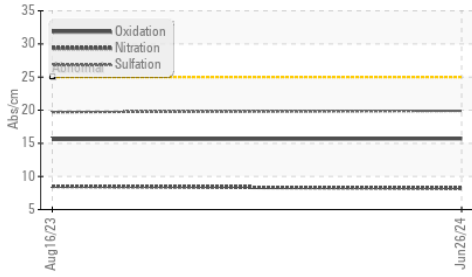
| | | | | | | |
|------------------|----------|-------------|-------|-------|-------|-----|
| Silicon | ppm | ASTM D5185m | >25 | 7 | 8 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 23 | 29 | --- |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | | WC Method | | NEG | NEG | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.2 | 0.2 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.2 | 8.5 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.9 | 19.7 | --- |
| 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

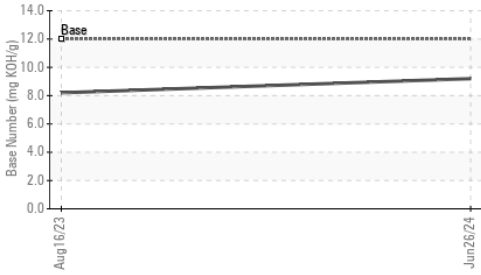
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|------|------|------|-----|
| Sodium | ppm | ASTM D5185m | | 4 | 2 | --- |
| Boron | ppm | ASTM D5185m | | 4 | 5 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | 59 | 58 | --- |
| Manganese | ppm | ASTM D5185m | | 2 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | 973 | 1034 | --- |
| Calcium | ppm | ASTM D5185m | | 1126 | 1256 | --- |
| Phosphorus | ppm | ASTM D5185m | | 1067 | 1077 | --- |
| Zinc | ppm | ASTM D5185m | | 1321 | 1294 | --- |
| Sulfur | ppm | ASTM D5185m | | 3635 | 3956 | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.7 | 15.6 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 12 | 9.2 | 8.2 | --- |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 14.3 | 13.7 | --- |

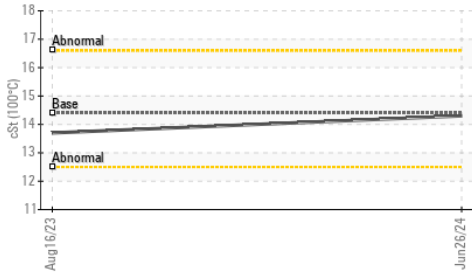
FT-IR (Direct Trend)



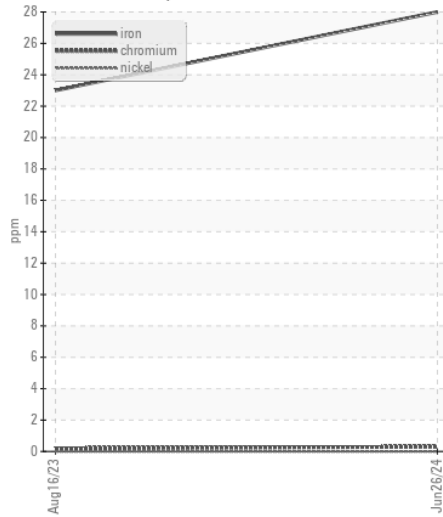
Base Number



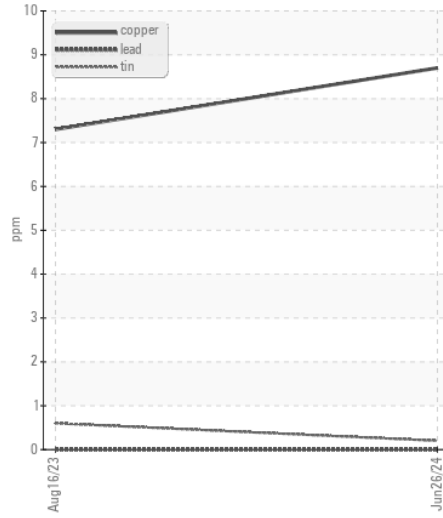
Viscosity @ 100°C



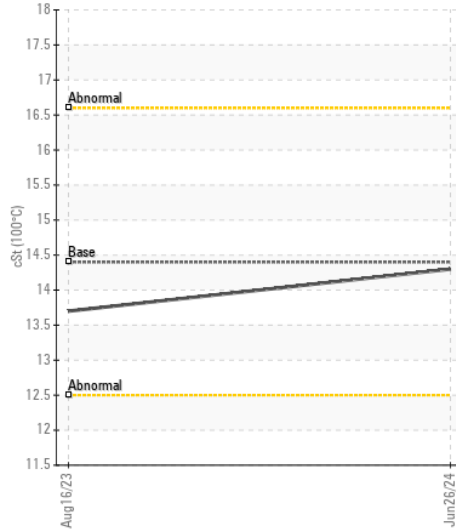
Ferrous Alloys



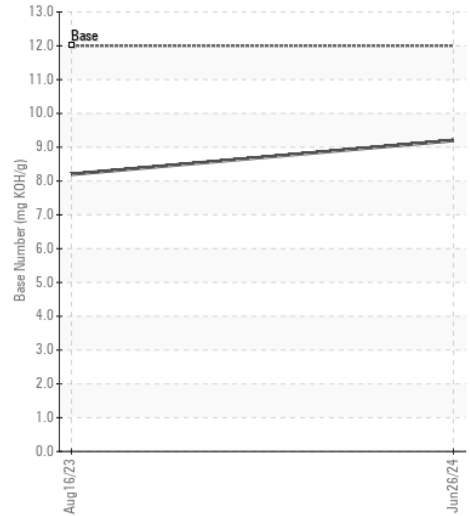
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

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

Sample No. : RPL0016520

Lab Number : 06238796

Unique Number : 11127630

Test Package : FLEET

Received : 17 Jul 2024

Tested : 17 Jul 2024

Diagnosed : 17 Jul 2024 - Wes Davis

RTL PACLEASE - 7002 - San Antonio

8810 IH-10 Frontage Road

Converse, TX

US 78109

Contact: Mike Friel

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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)