



OIL ANALYSIS REPORT

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

Machine Id
PETERBILT 8464764
Component
Diesel Engine
Fluid
MOBIL DELVAC 1300 SUPER 15W40 (24 QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | RPL0021016 | RPL0019426 | RPL0017349 |
| Sample Date | | Client Info | | 12 Jun 2024 | 16 Mar 2024 | 29 Dec 2023 |
| Machine Age | mls | Client Info | | 105993 | 99661 | 94374 |
| Oil Age | mls | Client Info | | 17032 | 10700 | 5413 |
| Filter Age | mls | Client Info | | 17032 | 10700 | 5413 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Sample Status | | | | ATTENTION | ABNORMAL | ATTENTION |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >110 | 23 | 14 | 7 |
| Chromium | ppm | ASTM D5185m | >4 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >25 | 12 | 8 | 5 |
| Lead | ppm | ASTM D5185m | >45 | <1 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >85 | 10 | 7 | 6 |
| Tin | ppm | ASTM D5185m | >4 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| 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.

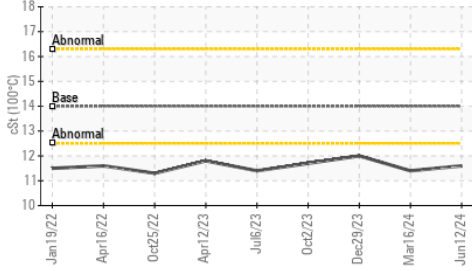
| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >30 | 5 | 3 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 23 | 16 | 4 |
| Fuel | % | ASTM D3524 | >5 | <1.0 | ▲ 4.5 | ▲ 3.3 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.3 | 0.3 | 0.2 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 10.4 | 8.8 | 7.1 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.8 | 21.1 | 19.9 |
| 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

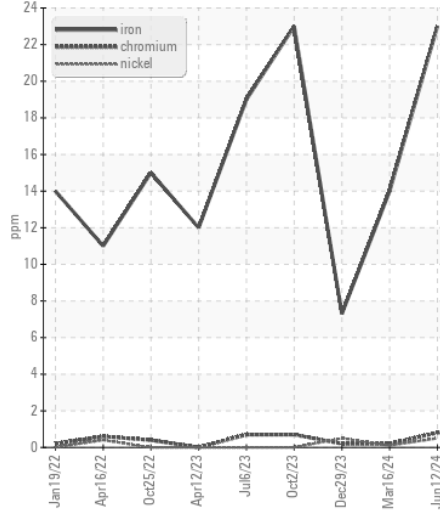
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

| | | | | | | |
|------------------|----------|-------------|-----|---------------|--------|-------|
| Sodium | ppm | ASTM D5185m | | 5 | <1 | 0 |
| Boron | ppm | ASTM D5185m | 0 | 2 | 8 | 2 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 59 | 59 | 57 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | 947 | ● 952 | ● 919 |
| Calcium | ppm | ASTM D5185m | | 1105 | ● 1093 | ● 992 |
| Phosphorus | ppm | ASTM D5185m | | 1055 | 1005 | 988 |
| Zinc | ppm | ASTM D5185m | | 1301 | 1227 | 1229 |
| Sulfur | ppm | ASTM D5185m | | 3612 | 3640 | 3132 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 20.9 | 19.5 | 17.3 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.4 | 6.4 | 7.4 | 8.4 |
| Visc @ 100°C | cSt | ASTM D445 | 14 | ● 11.6 | ▲ 11.4 | 12.0 |

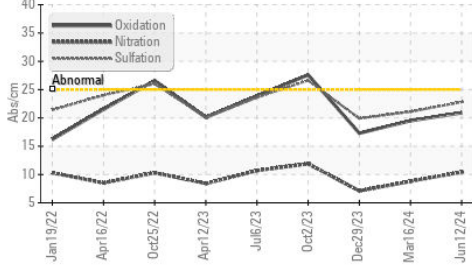
● Viscosity @ 100°C



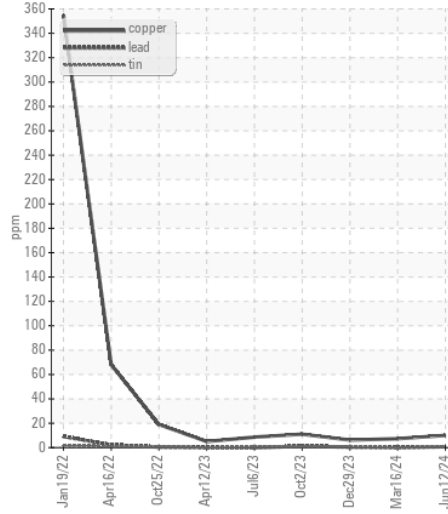
Ferrous Alloys



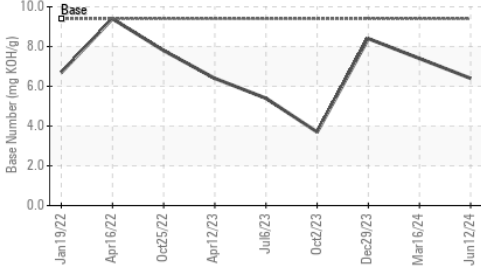
FT-IR (Direct Trend)



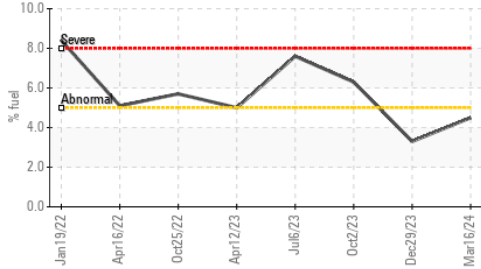
Non-ferrous Metals



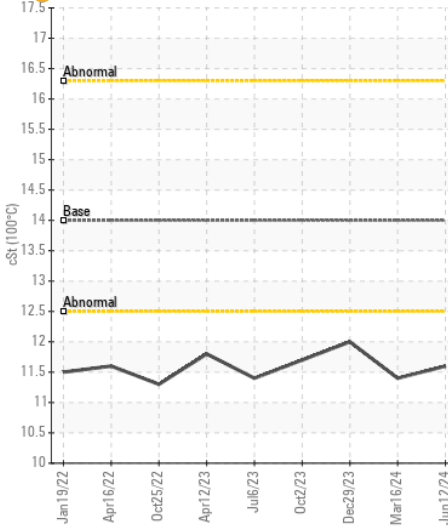
Base Number



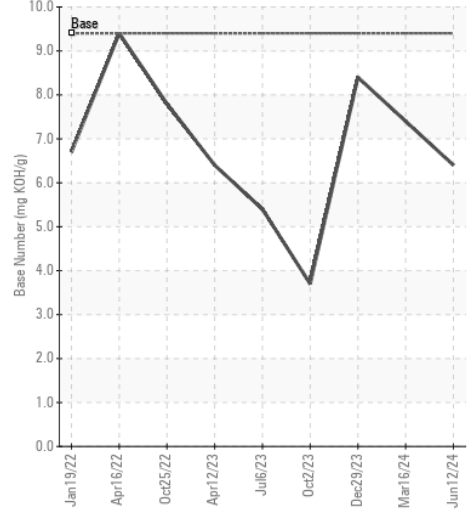
Fuel Dilution



● Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021016 **Received** : 27 Jun 2024
Lab Number : 06222239 **Tested** : 01 Jul 2024
Unique Number : 11100436 **Diagnosed** : 01 Jul 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: FUELDILUTION, PercentFuel)

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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F: