



OIL ANALYSIS REPORT

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

Machine Id
PETERBILT 8464361
 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 | | RPL0020427 | RPL0013604 | RPL0000888 |
| Sample Date | | Client Info | | 15 May 2024 | 08 Sep 2023 | 04 Feb 2022 |
| Machine Age | mls | Client Info | | 46766 | 45279 | 29033 |
| Oil Age | mls | Client Info | | 0 | 5279 | 9724 |
| Filter Age | mls | Client Info | | 0 | 5279 | 9724 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Changed |
| Filter Changed | | Client Info | | Not Changd | Not Changd | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >90 | 27 | 37 | 39 |
| Chromium | ppm | ASTM D5185m | >20 | 2 | 2 | 1 |
| Nickel | ppm | ASTM D5185m | >2 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | >2 | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | <1 | <1 |
| Aluminum | ppm | ASTM D5185m | >20 | 6 | 13 | 10 |
| Lead | ppm | ASTM D5185m | >40 | 5 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >330 | 1 | 2 | 5 |
| 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

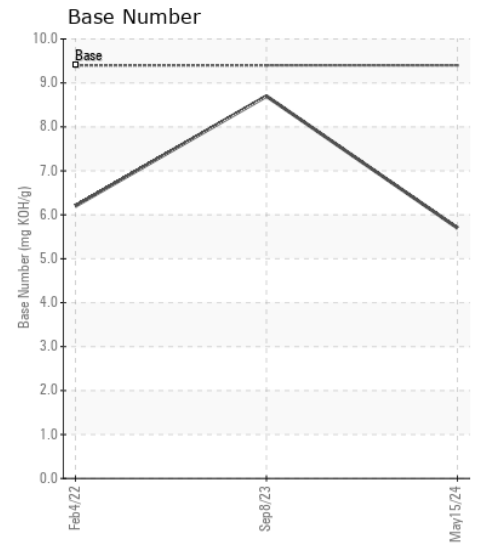
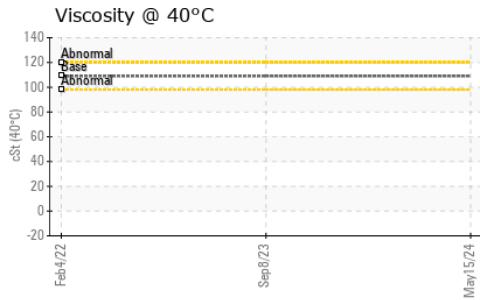
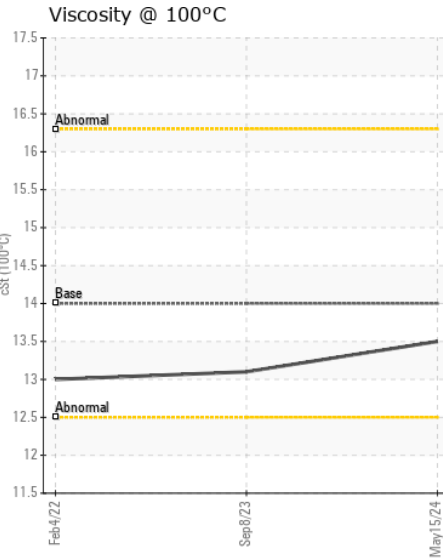
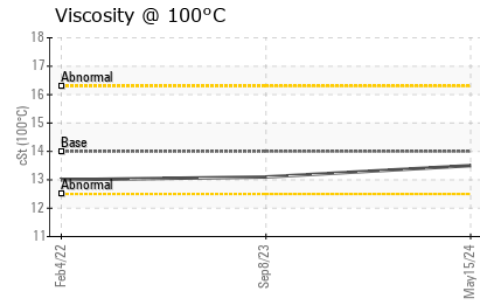
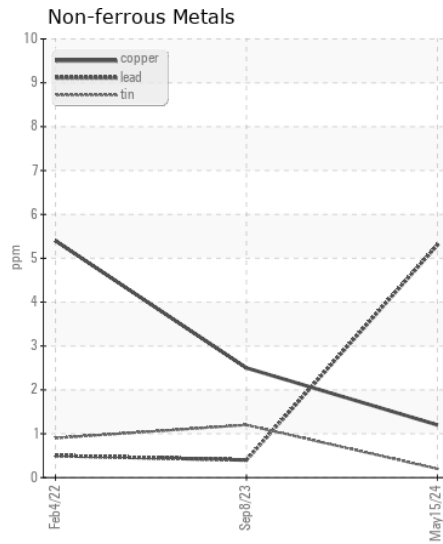
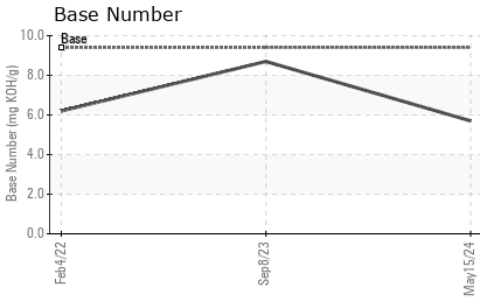
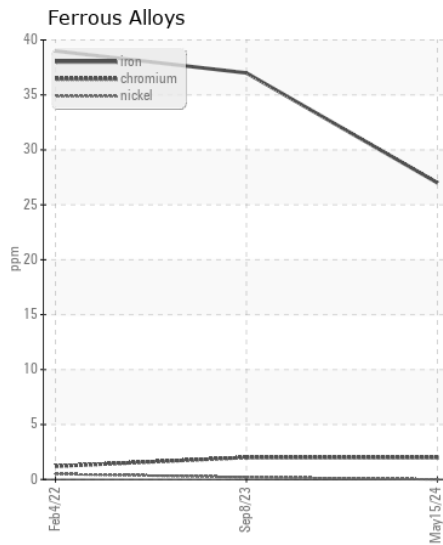
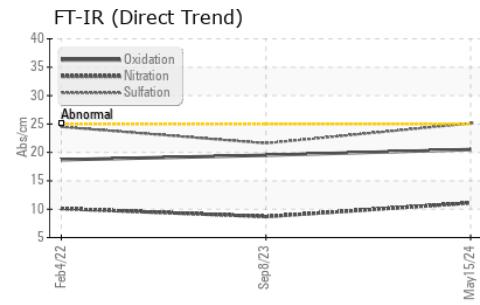
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 8 | 11 | 11 |
| Potassium | ppm | ASTM D5185m | >20 | 11 | 29 | 25 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >6 | 0.6 | 0.3 | 0.3 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 11.1 | 8.7 | 10.1 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 25.1 | 21.6 | 24.5 |
| 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 | 3 | 5 |
| Boron | ppm | ASTM D5185m | 0 | 26 | 47 | 57 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 17 | 51 | 37 |
| Manganese | ppm | ASTM D5185m | | <1 | 1 | 1 |
| Magnesium | ppm | ASTM D5185m | 0 | 849 | 654 | 600 |
| Calcium | ppm | ASTM D5185m | | 1369 | 1845 | 1854 |
| Phosphorus | ppm | ASTM D5185m | | 813 | 893 | 840 |
| Zinc | ppm | ASTM D5185m | | 990 | 1117 | 944 |
| Sulfur | ppm | ASTM D5185m | | 3389 | 3471 | 2289 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 20.5 | 19.5 | 18.7 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.4 | 5.7 | 8.7 | 6.2 |
| Visc @ 100°C | cSt | ASTM D445 | 14 | 13.5 | 13.1 | 13.0 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0020427 **Received** : 02 Jul 2024
Lab Number : 06225895 **Tested** : 05 Jul 2024
Unique Number : 11109388 **Diagnosed** : 05 Jul 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: KV40)

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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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