



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

Machine Id
VOLVO VNR 62T300 26625 (S/N 17407)
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PCA0124285 | PCA0118390 | PCA0092448 |
| Sample Date | | Client Info | | 22 Jun 2024 | 07 Feb 2024 | 02 Jun 2023 |
| Machine Age | mls | Client Info | | 20000 | 0 | 430569 |
| Oil Age | mls | Client Info | | 20000 | 0 | 20000 |
| Filter Age | mls | Client Info | | 20000 | 0 | 20000 |
| Oil Changed | | Client Info | | Changed | N/A | Not Changed |
| Filter Changed | | Client Info | | Changed | N/A | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 46 | 59 | 41 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | 2 | 1 |
| Titanium | ppm | ASTM D5185m | | 19 | 1 | 2 |
| Silver | ppm | ASTM D5185m | >2 | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 4 | 3 | 4 |
| Lead | ppm | ASTM D5185m | >40 | <1 | 2 | <1 |
| Copper | ppm | ASTM D5185m | >330 | 6 | 9 | 6 |
| Tin | ppm | ASTM D5185m | >15 | <1 | 2 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 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.

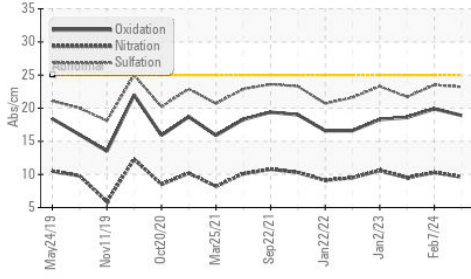
| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 7 | 7 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 8 | 9 | 2 |
| Fuel | | WC Method | >6.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.6 | 0.8 | 0.6 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.6 | 10.3 | 9.5 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.2 | 23.5 | 21.7 |
| 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

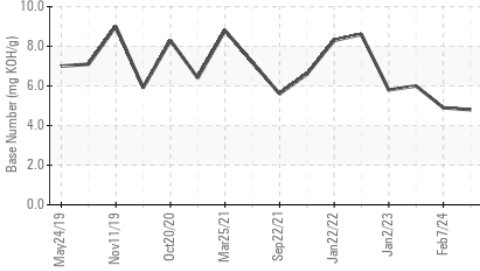
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|-------|-------------|------|------|
| Sodium | ppm | ASTM D5185m | | 19 | 18 | 12 |
| Boron | ppm | ASTM D5185m | 2 | 4 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 14 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 46 | 60 | 55 |
| Manganese | ppm | ASTM D5185m | 0 | 0 | 1 | <1 |
| Magnesium | ppm | ASTM D5185m | 950 | 796 | 865 | 891 |
| Calcium | ppm | ASTM D5185m | 1050 | 1226 | 1064 | 1105 |
| Phosphorus | ppm | ASTM D5185m | 995 | 939 | 982 | 935 |
| Zinc | ppm | ASTM D5185m | 1180 | 1260 | 1147 | 1184 |
| Sulfur | ppm | ASTM D5185m | 2600 | 2790 | 2899 | 3189 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.9 | 19.9 | 18.6 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 4.8 | 4.9 | 6.0 |
| Visc @ 100°C | cSt | ASTM D445 | 12.00 | 10.8 | 10.8 | 10.8 |

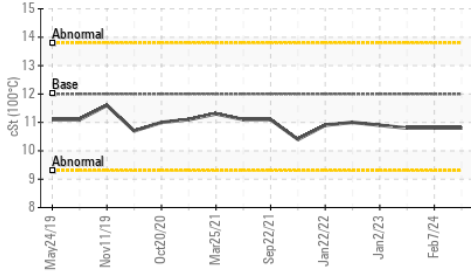
FT-IR (Direct Trend)



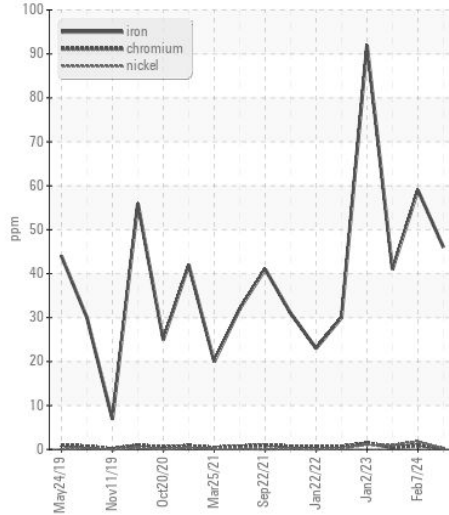
Base Number



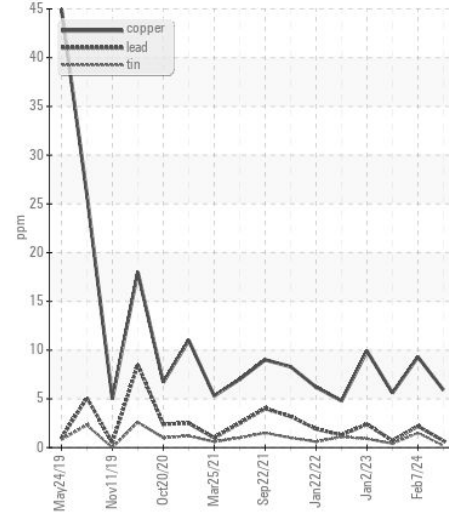
Viscosity @ 100°C



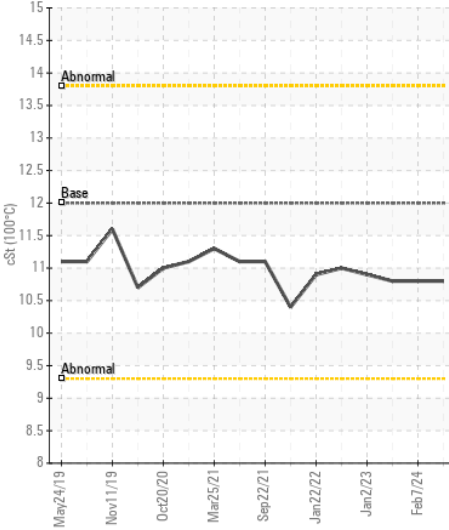
Ferrous Alloys



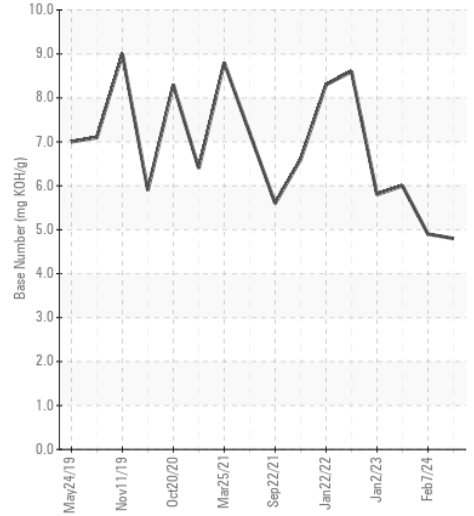
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

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

Sample No. : PCA0124285

Lab Number : 06220730

Unique Number : 11098927

Test Package : FLEET

Received : 26 Jun 2024

Tested : 27 Jun 2024

Diagnosed : 27 Jun 2024 - Wes Davis

PERDUE FARMS - SALISBURY

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SALISBURY, MD

US 21802

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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)