



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

Machine Id
2327131
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | PCA0106374 | PCA06060008 | --- |
| Sample Date | | Client Info | | 13 Apr 2024 | 13 Jan 2024 | --- |
| Machine Age | mls | Client Info | | 50087 | 0 | --- |
| Oil Age | mls | Client Info | | 40000 | 20000 | --- |
| Filter Age | mls | Client Info | | 20000 | 0 | --- |
| Oil Changed | | Client Info | | Changed | Changed | --- |
| Filter Changed | | Client Info | | Changed | Changed | --- |
| Sample Status | | | | NORMAL | ABNORMAL | --- |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|-------------|------|-------------|------|-----|
| Iron | ppm | ASTM D5185m | >100 | 13 | 27 | --- |
| Chromium | ppm | ASTM D5185m | >20 | 0 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >4 | 0 | <1 | --- |
| Titanium | ppm | ASTM D5185m | | 20 | 0 | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | <1 | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | 14 | --- |
| Lead | ppm | ASTM D5185m | >40 | 0 | 2 | --- |
| Copper | ppm | ASTM D5185m | >330 | 12 | 270 | --- |
| Tin | ppm | ASTM D5185m | >15 | 0 | 4 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

There is no indication of any contamination in the oil.

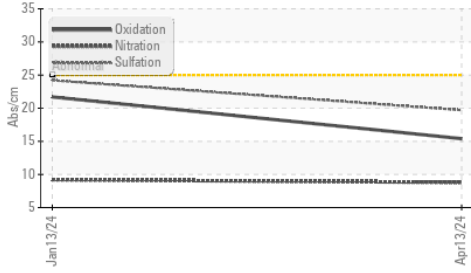
| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >25 | 3 | 47 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 8 | 44 | --- |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Glycol | | WC Method | | NEG | NEG | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.4 | 0.2 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.8 | 9.2 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.7 | 24.2 | --- |
| 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

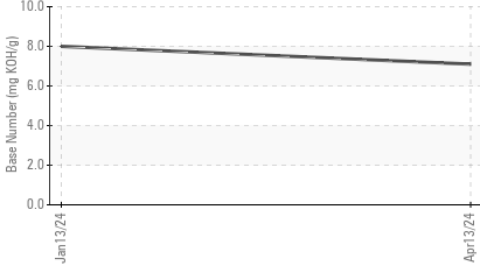
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|-------|--------------|------|-----|
| Sodium | ppm | ASTM D5185m | | <1 | 4 | --- |
| Boron | ppm | ASTM D5185m | 2 | 10 | 246 | --- |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 50 | 49 | 120 | --- |
| Manganese | ppm | ASTM D5185m | 0 | 0 | 3 | --- |
| Magnesium | ppm | ASTM D5185m | 950 | 857 | 654 | --- |
| Calcium | ppm | ASTM D5185m | 1050 | 1455 | 1564 | --- |
| Phosphorus | ppm | ASTM D5185m | 995 | 1086 | 712 | --- |
| Zinc | ppm | ASTM D5185m | 1180 | 1368 | 842 | --- |
| Sulfur | ppm | ASTM D5185m | 2600 | 4044 | 2359 | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.4 | 21.7 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 7.1 | 8.0 | --- |
| Visc @ 100°C | cSt | ASTM D445 | 12.00 | 11.2 | 9.7 | --- |

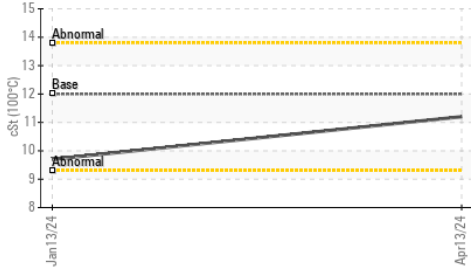
FT-IR (Direct Trend)



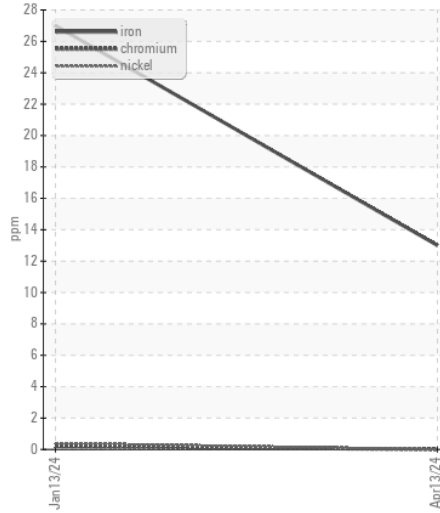
Base Number



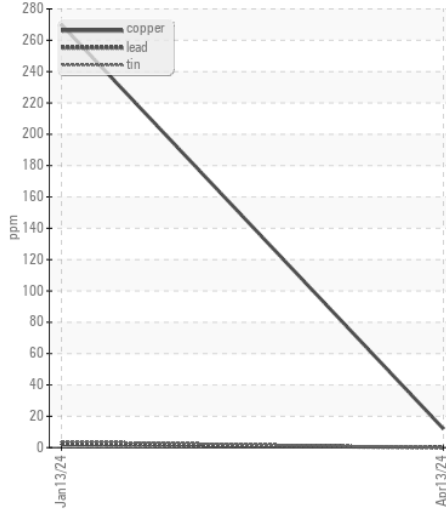
Viscosity @ 100°C



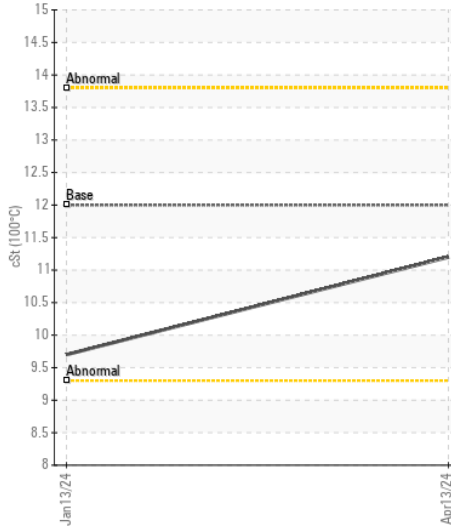
Ferrous Alloys



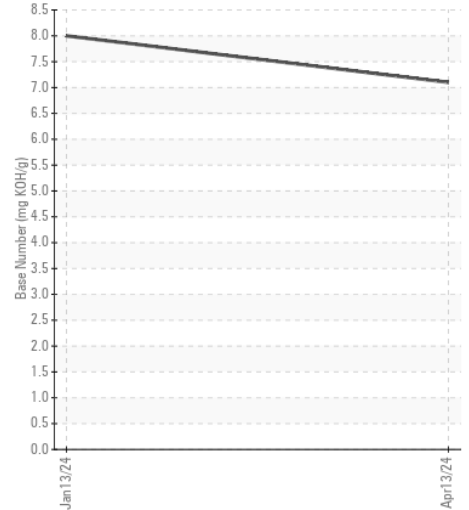
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

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

Sample No. : PCA0106374

Lab Number : 06158751

Unique Number : 10994174

Test Package : FLEET

Received : 24 Apr 2024

Tested : 25 Apr 2024

Diagnosed : 25 Apr 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)