



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

Machine Id
2327132
 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 | | PCA0106378 | PCA0118395 | PCA0106372 |
| Sample Date | | Client Info | | 14 Apr 2024 | 11 Feb 2024 | 24 Dec 2023 |
| Machine Age | mls | Client Info | | 64515 | 50449 | 35211 |
| Oil Age | mls | Client Info | | 15000 | 20000 | 35000 |
| Filter Age | mls | Client Info | | 15000 | 20000 | 15000 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 14 | 14 | 19 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 23 | 15 | 3 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 1 | 1 |
| Aluminum | ppm | ASTM D5185m | >20 | <1 | 3 | 6 |
| Lead | ppm | ASTM D5185m | >40 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >330 | 27 | 130 | 409 |
| Tin | ppm | ASTM D5185m | >15 | 0 | 1 | 2 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

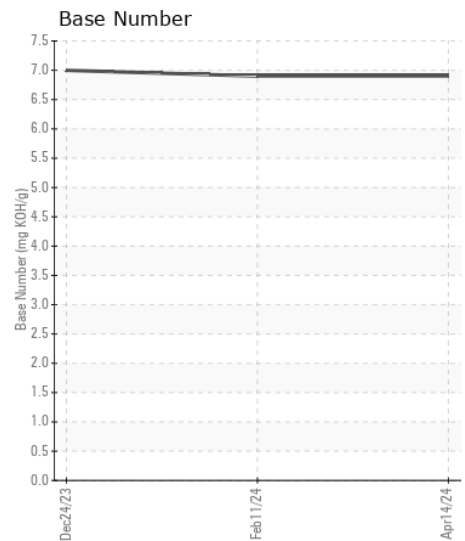
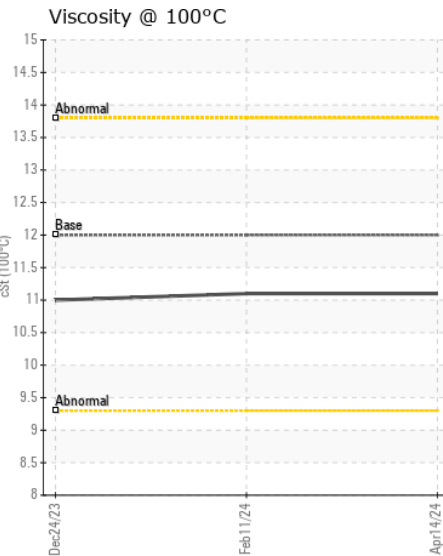
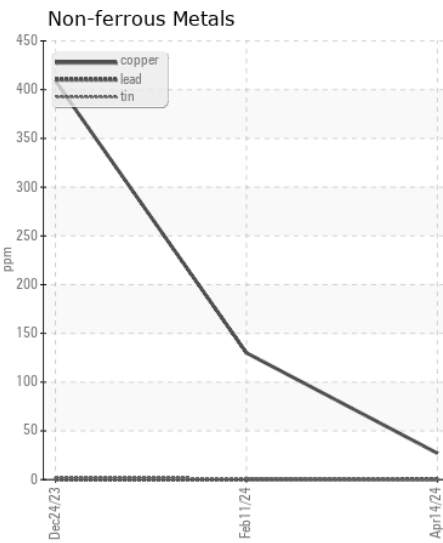
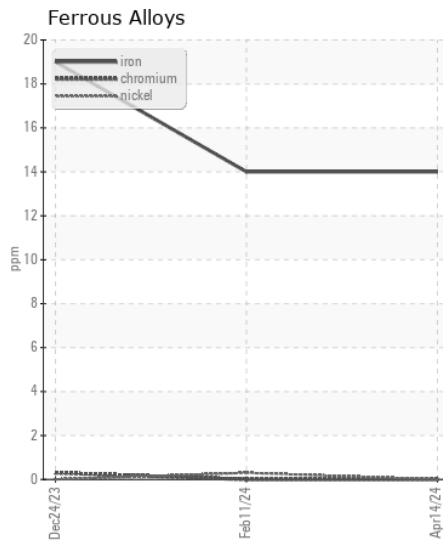
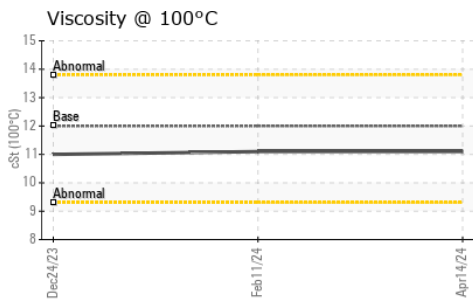
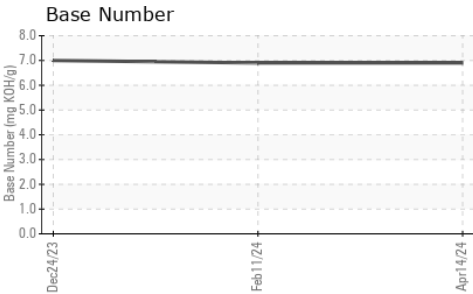
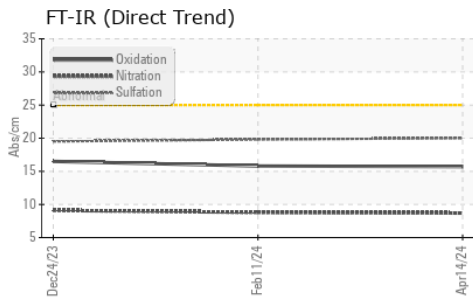
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 3 | 6 | 10 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 7 | 16 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.3 | 0.4 | 0.4 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.7 | 8.8 | 9.1 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.0 | 19.8 | 19.5 |
| 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 | | 1 | 3 | 1 |
| Boron | ppm | ASTM D5185m | 2 | 9 | 10 | 14 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 47 | 46 | 63 |
| Manganese | ppm | ASTM D5185m | 0 | 0 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | 950 | 841 | 754 | 886 |
| Calcium | ppm | ASTM D5185m | 1050 | 1463 | 1141 | 1147 |
| Phosphorus | ppm | ASTM D5185m | 995 | 1086 | 900 | 1016 |
| Zinc | ppm | ASTM D5185m | 1180 | 1363 | 1121 | 1215 |
| Sulfur | ppm | ASTM D5185m | 2600 | 3903 | 2564 | 2616 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.7 | 15.8 | 16.5 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 6.9 | 6.9 | 7.0 |
| Visc @ 100°C | cSt | ASTM D445 | 12.00 | 11.1 | 11.1 | 11.0 |



Certificate L2367

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

Sample No. : PCA0106378

Lab Number : 06158760

Unique Number : 10994183

Test Package : FLEET

Received : 24 Apr 2024

Tested : 25 Apr 2024

Diagnosed : 25 Apr 2024 - Wes Davis

PERDUE FARMS - SALISBURY

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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)