



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

Machine Id
2026879
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

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 | | PCA0116264 | PCA0112317 | PCA0066433 |
| Sample Date | | Client Info | | 16 May 2024 | 18 Dec 2023 | 13 Feb 2022 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 25 | 24 | 25 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | 1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 5 | 1 |
| Lead | ppm | ASTM D5185m | >40 | 0 | 1 | 8 |
| Copper | ppm | ASTM D5185m | >330 | 5 | 4 | <1 |
| Tin | ppm | ASTM D5185m | >15 | 0 | 1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

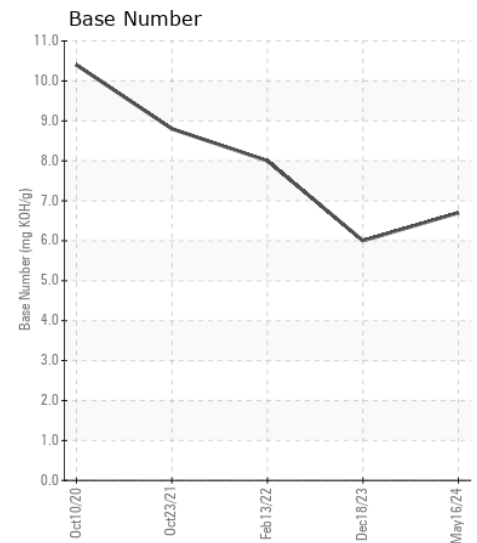
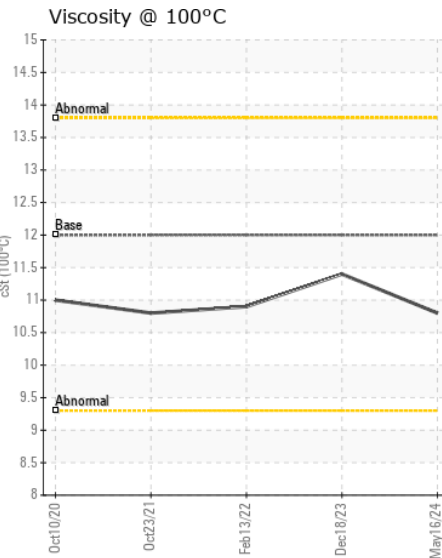
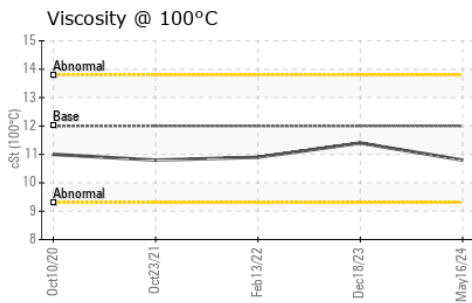
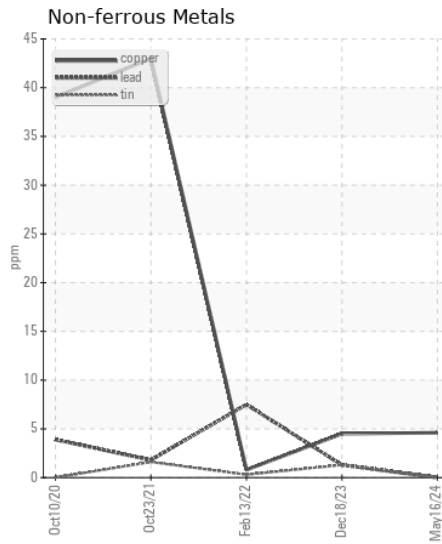
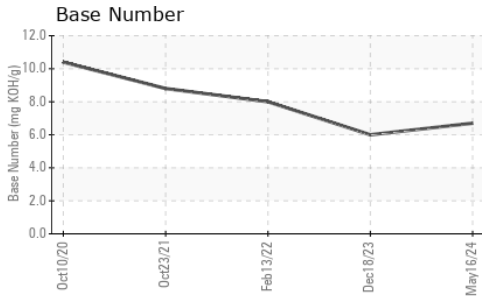
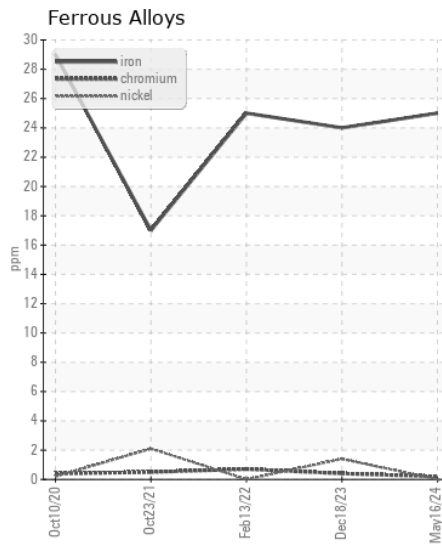
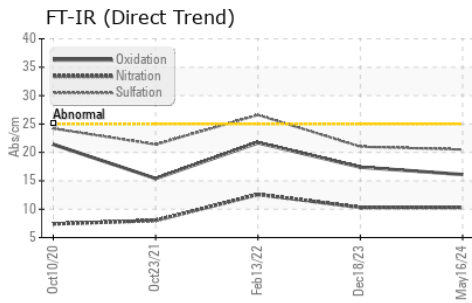
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 4 | 4 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 0 | 1 |
| 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 | 0.5 | 0.5 | 0.8 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 10.3 | 10.3 | 12.6 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.5 | 21.0 | 26.6 |
| 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 | 0 | 4 |
| Boron | ppm | ASTM D5185m | 2 | 2 | 0 | 6 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 50 | 63 | 58 | 67 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 950 | 958 | 901 | 1077 |
| Calcium | ppm | ASTM D5185m | 1050 | 1259 | 1027 | 1251 |
| Phosphorus | ppm | ASTM D5185m | 995 | 1001 | 934 | 1156 |
| Zinc | ppm | ASTM D5185m | 1180 | 1265 | 1233 | 1336 |
| Sulfur | ppm | ASTM D5185m | 2600 | 3653 | 2927 | 2837 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.1 | 17.4 | 21.7 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 6.7 | 6.0 | 8.0 |
| Visc @ 100°C | cSt | ASTM D445 | 12.00 | 10.8 | 11.4 | 10.9 |



Certificate L2367

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

Sample No. : PCA0116264

Lab Number : 06240107

Unique Number : 11128941

Test Package : FLEET

Received : 18 Jul 2024

Tested : 19 Jul 2024

Diagnosed : 19 Jul 2024 - Wes Davis

PERDUE FARMS - DILLON

2047 HWY 9 WEST

DILLON, SC

US 29536

Contact: KEVIN HOOKS

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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)