

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

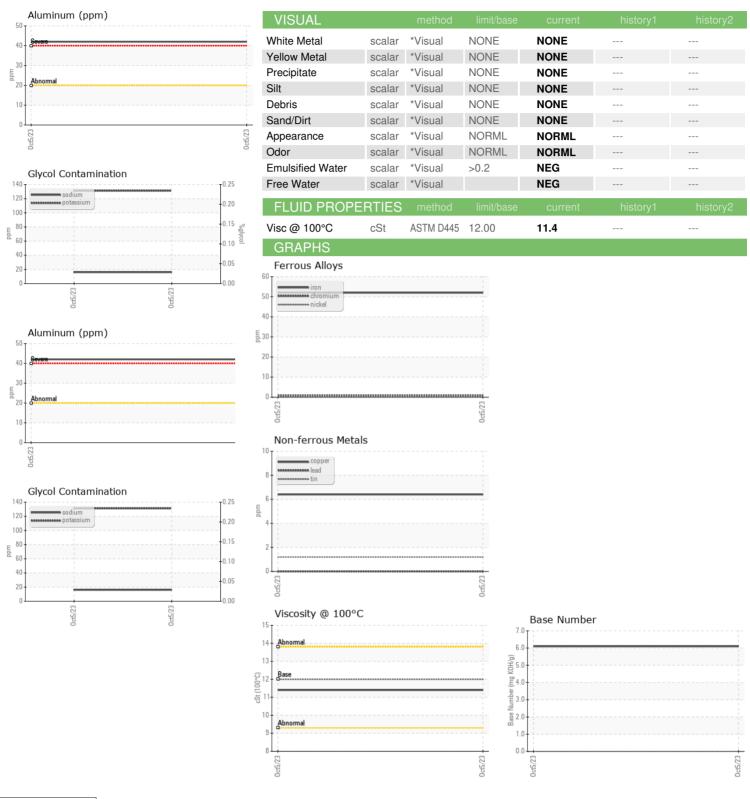
Fluid Condition

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

| GAL) | | | | Oct2023 | | |
|----------------------------|----------------------|---------------------------|------------|-------------|----------|----------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PCA0107993 | | |
| Sample Date | | Client Info | | 05 Oct 2023 | | |
| Machine Age | hrs | Client Info | | 1880 | | |
| Oil Age | hrs | Client Info | | 1012 | | |
| Oil Changed | | Client Info | | Changed | | |
| Sample Status | | | | NORMAL | | |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | | |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >100 | 52 | | |
| Chromium | ppm | ASTM D5185m | >20 | <1 | | |
| Nickel | ppm | ASTM D5185m | >4 | <1 | | |
| Titanium | ppm | ASTM D5185m | | 0 | | |
| Silver | ppm | ASTM D5185m | >3 | <1 | | |
| Aluminum | ppm | ASTM D5185m | >20 | 42 | | |
| Lead | ppm | ASTM D5185m | >40 | 0 | | |
| Copper | ppm | ASTM D5185m | >330 | 6 | | |
| Tin | ppm | ASTM D5185m | >15 | 1 | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 2 | 4 | | |
| Barium | ppm | ASTM D5185m | 0 | 0 | | |
| Molybdenum | ppm | ASTM D5185m | 50 | 54 | | |
| Manganese | ppm | ASTM D5185m | 0 | 1 | | |
| Magnesium | ppm | ASTM D5185m | 950 | 910 | | |
| Calcium | ppm | ASTM D5185m | 1050 | 1072 | | |
| Phosphorus | ppm | ASTM D5185m | 995 | 981 | | |
| Zinc | ppm | ASTM D5185m | 1180 | 1196 | | |
| Sulfur | ppm | ASTM D5185m | 2600 | 2712 | | |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 11 | | |
| Sodium | ppm | ASTM D5185m | | 16 | | |
| Potassium | ppm | ASTM D5185m | >20 | 131 | | |
| Glycol | % | *ASTM D2982 | | NEG | | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.5 | | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 11.5 | | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.6 | | |
| FLUID DEGRAI | DATION | method | limit/base | current | history1 | history2 |
| | | | | | | |
| | | *ASTM D7414 | >25 | 20.3 | | |
| Oxidation Base Number (BN) | Abs/.1mm mg KOH/g | *ASTM D7414 ASTM D2896 | >25 | 20.3 6.1 | | |



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Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: PCA0107993

: 06008930 : 10742692 Test Package : FLEET (Additional Tests: Glycol)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Nov 2023 Diagnosed : 18 Nov 2023

Diagnostician : Don Baldridge

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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