

Machine Id SPARTOR/ROSENBAUER 4025

Front Diesel Engine

PETRO CANADA DURON HP 15W40 (24 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

| W | EA | R |
|---|----|---|
| | | |

All component wear rates are normal.

CONTAMINATION

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

| | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--|------------------|----------|---------------|-----------|-------------|-------------|-------------|
| | Sample Number | | Client Info | | WC0806345 | WC0702387 | WC0623553 |
| | Sample Date | | Client Info | | 05 Dec 2023 | 15 Oct 2022 | 12 Mar 2022 |
| | Machine Age | kms | Client Info | | 130896 | 117334 | 110546 |
| | Oil Age | kms | Client Info | | 13562 | 5800 | 5000 |
| | Filter Age | kms | Client Info | | 13562 | 5800 | 5000 |
| | Oil Changed | | Client Info | | Changed | Changed | Changed |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | | | ABNORMAL | NORMAL | ABNORMAL |
| | | | | | | | |
| | Iron | ppm | ASTM D5185(m) | >75 | 66 | 20 | 17 |
| | Chromium | ppm | ASTM D5185(m) | >5 | 2 | <1 | <1 |
| | Nickel | ppm | ASTM D5185(m) | >4 | <1 | <1 | <1 |
| | Titanium | ppm | ASTM D5185(m) | >2 | 0 | <1 | 0 |
| | Silver | ppm | ASTM D5185(m) | >2 | <1 | 0 | <1 |
| | Aluminum | ppm | ASTM D5185(m) | >15 | 4 | 2 | 2 |
| | Lead | ppm | ASTM D5185(m) | >25 | 4 | 3 | 6 |
| | Copper | ppm | ASTM D5185(m) | >100 | 7 | 11 | 5 |
| | Tin | ppm | ASTM D5185(m) | >4 | <1 | <1 | 0 |
| | Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| | Silicon | ppm | ASTM D5185(m) | >25 | 10 | 6 | 6 |
| | Potassium | ppm | ASTM D5185(m) | >20 | 6 | 4 | 13 |
| | Fuel | % | ASTM D7593* | >3.0 | 3 .1 | 1 | 3 |
| | Water | | WC Method | >0.2 | NEG | NEG | NEG |
| | Glycol | % | ASTM D7922* | | 0.0 | 0.0 | 0.0 |
| | Soot % | % | ASTM D7844* | >6 | 0.8 | 0.1 | 0 |
| | Nitration | Abs/cm | ASTM D7624* | >20 | 12.7 | 8.4 | 9.9 |
| | Sulfation | Abs/.1mm | ASTM D7415* | >30 | 28.4 | 21.4 | 19.9 |
| | Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |
| | Sodium | ppm | ASTM D5185(m) | | 86 | 92 | 4 84 |
| | Boron | ppm | ASTM D5185(m) | 0 | 8 | 9 | 4 |
| | Barium | ppm | ASTM D5185(m) | 0 | <1 | 0 | 0 |
| | Molybdenum | ppm | ASTM D5185(m) | 60 | 34 | 34 | 41 |
| | Manganese | ppm | ASTM D5185(m) | 0 | <1 | <1 | <1 |
| | Magnesium | ppm | ASTM D5185(m) | 1010 | 375 | 372 | 298 |
| | Calcium | ppm | ASTM D5185(m) | 1070 | 1728 | 1882 | 1686 |
| | Phosphorus | ppm | ASTM D5185(m) | 1150 | 865 | 946 | 886 |
| | Zinc | ppm | ASTM D5185(m) | 1270 | 1079 | 1068 | 1007 |
| | Sulfur | ppm | ASTM D5185(m) | 2060 | 2636 | 2892 | 2796 |
| | Oxidation | Abs/.1mm | ASTM D7414* | >25 | 24.7 | 14.5 | 14.6 |
| | Base Number (BN) | mg KOH/g | ASTM D2896* | 9.8 | 4.01 | 5.20 | 7.18 |
| | Vier @ 10000 | - 01 | | 45.0 | 100 | 10.4 | 100 |

ASTM D7279(m) 15.6

Visc @ 100°C cSt

FLUID CONDITION

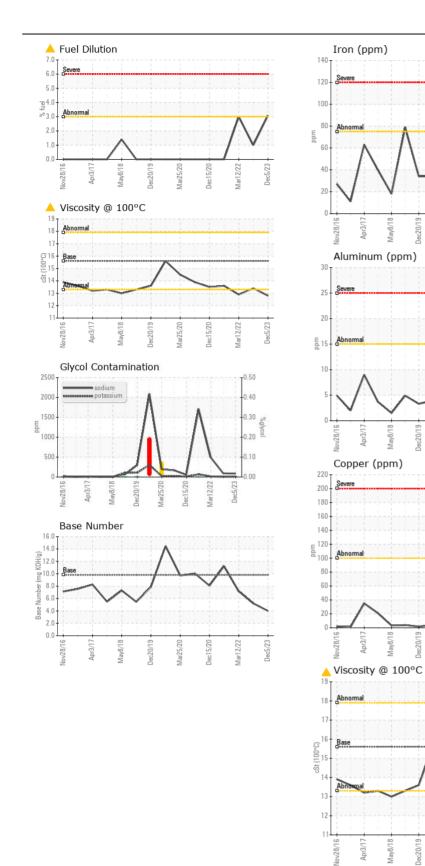
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

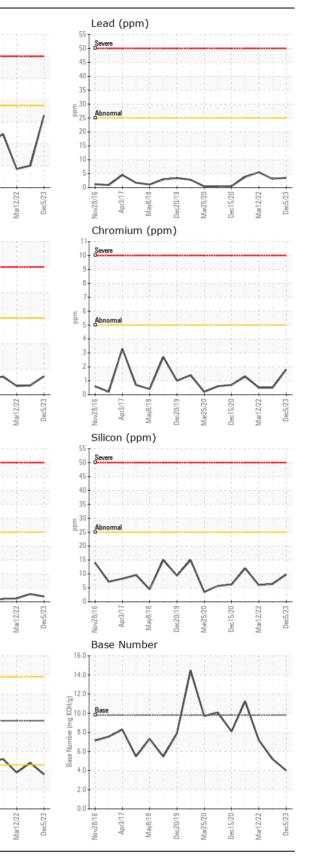
Contact/Location: Brent Paisley - CIT288WIN

13.4

🔺 12.8

12.9





ec15/20

ec15/20

Dec15/20

Mar25/20

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA : WC0806345 :08 Dec 2023 Sample No. Received : 02601813 Lab Number Tested : 15 Dec 2023 ISO 17025:2017 Unique Number : 5694898 Accredited : 15 Dec 2023 - Wes Davis Diagnosed Laboratory Test Package : MOB 2 (Additional Tests: FUELDILUTION, Glycol, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

City of Windsor 2885 Kew Drive Windsor, ON CA N8T 3B7 Contact: Brent Paisley bpaisley@citywindsor.ca T: (519)945-7395 F: (519)948-9095

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