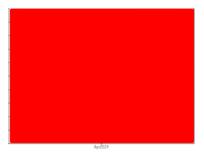


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
V3457
Component
Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check for faulty combustion, plugged air filters, or aftercoolers. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

Wear

Piston and cylinder wear is indicated.

Contamination

Sodium and/or potassium levels are high. Test for glycol is positive. There is an abnormal amount of solids and carbon present in the oil.

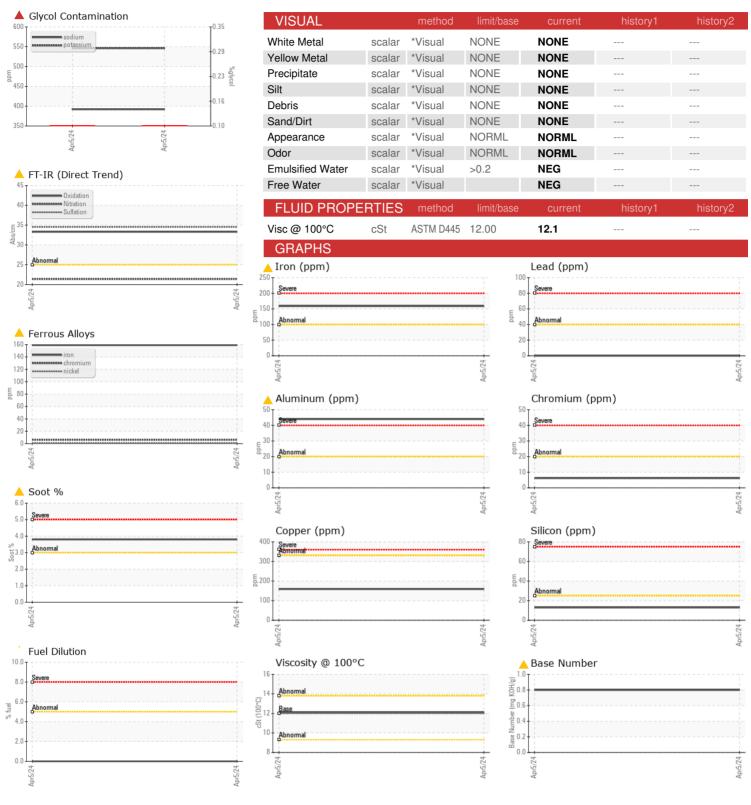
▲ Fluid Condition

The BN level is low. The oil is no longer serviceable due to the presence of contaminants.

| GAL) | | | | Apr2024 | | |
|---------------|----------|-------------|-------------------|-----------------|----------|----------|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | PCA0112760 | | |
| Sample Date | | Client Info | | 05 Apr 2024 | | |
| Machine Age | mls | Client Info | | 316897 | | |
| Oil Age | mls | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | SEVERE | | |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.2 | NEG | | |
| WEAR METAL | .S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >100 | <u> </u> | | |
| Chromium | ppm | ASTM D5185m | >20 | 6 | | |
| Nickel | ppm | ASTM D5185m | >4 | <1 | | |
| Titanium | ppm | ASTM D5185m | | <1 | | |
| Silver | ppm | ASTM D5185m | >3 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >20 | 44 | | |
| Lead | ppm | ASTM D5185m | >40 | 0 | | |
| Copper | ppm | ASTM D5185m | >330 | 159 | | |
| Tin | ppm | ASTM D5185m | >15 | 2 | | |
| Vanadium | ppm | ASTM D5185m | | 0 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 2 | 8 | | |
| Barium | ppm | ASTM D5185m | 0 | 2 | | |
| Molybdenum | ppm | ASTM D5185m | 50 | 108 | | |
| Manganese | ppm | ASTM D5185m | 0 | 4 | | |
| Magnesium | ppm | ASTM D5185m | 950 | 704 | | |
| Calcium | ppm | ASTM D5185m | 1050 | 1383 | | |
| Phosphorus | ppm | ASTM D5185m | 995 | 794 | | |
| Zinc | ppm | ASTM D5185m | 1180 | 1016 | | |
| Sulfur | ppm | ASTM D5185m | 2600 | 2771 | | |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 13 | | |
| Sodium | ppm | ASTM D5185m | | <u>▲</u> 392 | | |
| Potassium | ppm | ASTM D5185m | >20 | <u>^</u> 546 | | |
| Fuel | % | ASTM D3524 | >5 | <1.0 | | |
| Glycol | % | *ASTM D2982 | | ▲ 0.10 | | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | ▲ 3.8 | | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 21.4 | | |
| | | | | | | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 34.5 | | |
| | | | >30 limit/base | 34.5 current | history1 | history2 |
| Sulfation | | | | | | |



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

Lab Number : 06155729

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0112760

Unique Number : 10991152

Received : 22 Apr 2024 **Tested**

: 23 Apr 2024 Diagnosed

: 23 Apr 2024 - Jonathan Hester

Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

MILLER TRUCK LEASING #137

361 ROUTE 312 BREWSTER, NY US 10509

Contact: Robert Beckhusen rbeckhusen@millertransgroup.com T: (845)779-1064

Report Id: MILBRENY [WUSCAR] 06155729 (Generated: 04/23/2024 17:25:40) Rev: 1

Contact/Location: Robert Beckhusen - MILBRENY