

OIL ANALYSIS REPORT

NORMAL

Machine Id

AUTOCAR 10851

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (7 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

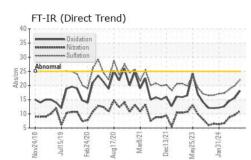
Fluid Condition

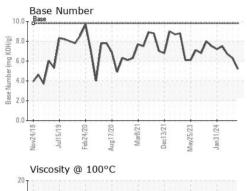
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

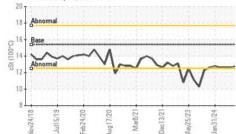
| AL) | | | | | | | | | |
|------------------|----------|-------------|------------|-------------|-------------|-------------|--|--|--|
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 | | | |
| Sample Number | | Client Info | | GFL0116775 | GFL0116751 | GFL0109020 | | | |
| Sample Date | | Client Info | | 03 Jun 2024 | 06 May 2024 | 07 Mar 2024 | | | |
| Machine Age | hrs | Client Info | | 31920 | 31769 | 31621 | | | |
| Dil Age | hrs | Client Info | | 20338 | 20187 | 20039 | | | |
| Dil Changed | | Client Info | | Not Changd | Not Changd | N/A | | | |
| Sample Status | | | | NORMAL | NORMAL | NORMAL | | | |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 | | | |
| ⁻ uel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 | | | |
| Water | | WC Method | >0.2 | NEG | NEG | NEG | | | |
| Glycol | | WC Method | | NEG | NEG | NEG | | | |
| WEAR METAL | .S | method | limit/base | current | history1 | history2 | | | |
| ron | ppm | ASTM D5185m | >75 | 58 | 31 | 13 | | | |
| Chromium | ppm | ASTM D5185m | >5 | 3 | 3 | 0 | | | |
| Nickel | ppm | ASTM D5185m | >4 | 0 | <1 | 0 | | | |
| Fitanium | ppm | ASTM D5185m | >2 | <1 | <1 | 0 | | | |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 | | | |
| Aluminum | ppm | ASTM D5185m | >15 | 4 | 4 | <1 | | | |
| ead | ppm | ASTM D5185m | >25 | 0 | 0 | 0 | | | |
| Copper | ppm | ASTM D5185m | >100 | 2 | 2 | 0 | | | |
| Fin | ppm | ASTM D5185m | >4 | <1 | <1 | 0 | | | |
| V anadium | ppm | ASTM D5185m | | 0 | <1 | 0 | | | |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 | | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 | | | |
| Boron | ppm | ASTM D5185m | 0 | 12 | 17 | 10 | | | |
| Barium | ppm | ASTM D5185m | 0 | <1 | 0 | 0 | | | |
| Nolybdenum | ppm | ASTM D5185m | 60 | 65 | 66 | 59 | | | |
| Manganese | ppm | ASTM D5185m | 0 | 1 | <1 | 0 | | | |
| Magnesium | ppm | ASTM D5185m | 1010 | 787 | 749 | 703 | | | |
| Calcium | ppm | ASTM D5185m | 1070 | 1167 | 1176 | 1061 | | | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 978 | 1046 | 810 | | | |
| Zinc | ppm | ASTM D5185m | 1270 | 1135 | 1174 | 991 | | | |
| Sulfur | ppm | ASTM D5185m | 2060 | 3102 | 3101 | 2500 | | | |
| CONTAMINAN | NTS | method | limit/base | current | history1 | history2 | | | |
| Silicon | ppm | | >25 | 10 | 9 | 5 | | | |
| Sodium | ppm | ASTM D5185m | | 38 | 25 | 18 | | | |
| Potassium | ppm | ASTM D5185m | >20 | 8 | 10 | 2 | | | |
| INFRA-RED | | method | limit/base | current | history1 | history2 | | | |
| Soot % | % | *ASTM D7844 | >6 | 0.9 | 0.6 | 0.4 | | | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 11.0 | 9.6 | 8.8 | | | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.0 | 19.9 | 18.7 | | | |
| FLUID DEGRA | DATION | method | limit/base | current | history1 | history2 | | | |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.1 | 15.6 | 14.6 | | | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 5.2 | 6.3 | 6.7 | | | |



OIL ANALYSIS REPORT







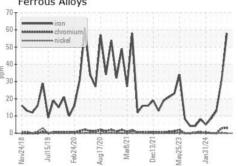
| VISUAL | | method | | | | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| 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 |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPE | RTIES | method | limit/base | current | history1 | history2 |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 12.8 | 12.6 | 12.6 |
| GRAPHS | | | | | | |

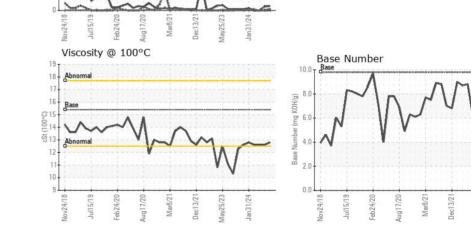
Ferrous Alloys

Non-ferrous Metals

50

40 30 20





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 009 - Fairburn Sample No. : GFL0116775 Received : 05 Jun 2024 6905 Roosevelt Hwy Lab Number : 06199838 Tested : 05 Jun 2024 Fairburn, GA US 30213 Unique Number : 11061961 Diagnosed : 05 Jun 2024 - Wes Davis Test Package : FLEET Contact: Eric Jones Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. erjones@gflenv.com T: (678)630-9927 * - 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) E:

Report Id: GFL009 [WUSCAR] 06199838 (Generated: 06/05/2024 16:41:18) Rev: 1

Submitted By: Eric Jones Page 2 of 2

Mav25/23

Jan 31/24