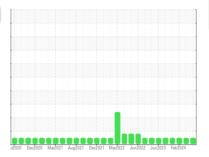


OIL ANALYSIS REPORT

(YA154680) 910012 AUTOCAR ACX

Diesel Engine

PETRO CANADA DURON SHP 15W40 (48 QTS)



Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

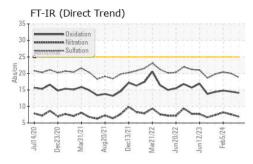
Fluid Condition

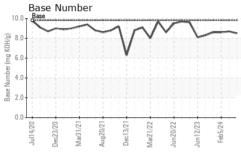
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

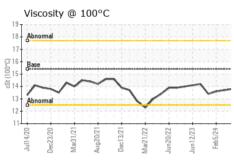
| SAMPLE INFORM | /ATION | method | limit/base | current | history1 | history2 |
|--|--|---|----------------------------------|------------------------------------|---|--------------------------------------|
| Sample Number | | Client Info | | GFL0117461 | GFL0117449 | GFL0094745 |
| Sample Date | | Client Info | | 17 Apr 2024 | 15 Apr 2024 | 05 Feb 2024 |
| Machine Age | hrs | Client Info | | 11373 | 11366 | 10839 |
| Oil Age | hrs | Client Info | | 7 | 527 | 619 |
| Oil Changed | 1110 | Client Info | | Changed | Changed | Changed |
| Sample Status | | CHOIL HIIO | | NORMAL | NORMAL | NORMAL |
| CONTAMINATI | ON | method | limit/base | current | history1 | history2 |
| Fuel | | 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 METALS | S | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >90 | 12 | 16 | 13 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 4 | 1 | 2 |
| Lead | ppm | ASTM D5185m | >40 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >330 | 6 | 0 | 0 |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 6 | 6 | 5 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 60 | 64 | 58 | 56 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 1010 | 918 | 913 | 892 |
| Calcium | ppm | ASTM D5185m | 1070 | 1083 | 1039 | 926 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1042 | 1002 | 970 |
| Zinc | ppm | ASTM D5185m | 1270 | 1216 | 1192 | 1186 |
| | | | | | | |
| Sulfur | ppm | ASTM D5185m | 2060 | 3269 | 3301 | 2776 |
| Sulfur CONTAMINAN | | ASTM D5185m method | 2060 limit/base | 3269 current | 3301 history1 | 2776 history2 |
| | | | limit/base | | | |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| CONTAMINAN Silicon | TS ppm | method ASTM D5185m | limit/base | current 4 | history1 | history2 |
| CONTAMINAN Silicon Sodium | TS ppm ppm | method ASTM D5185m ASTM D5185m | limit/base | current 4 3 | history1 2 <1 | history2 2 3 |
| CONTAMINAN Silicon Sodium Potassium | TS ppm ppm | method ASTM D5185m ASTM D5185m ASTM D5185m | limit/base >25 >20 | current 4 3 8 | history1 2 <1 <1 | history2 2 3 1 |
| CONTAMINAN Silicon Sodium Potassium INFRA-RED | TS ppm ppm ppm | method ASTM D5185m ASTM D5185m ASTM D5185m method | limit/base >25 >20 limit/base | current 4 3 8 current | history1 2 <1 <1 history1 | history2 2 3 1 history2 |
| CONTAMINAN' Silicon Sodium Potassium INFRA-RED Soot % | ppm ppm ppm | method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 | limit/base >25 >20 limit/base >6 | current 4 3 8 current 0.4 | history1 2 <1 <1 history1 0.9 | history2 2 3 1 history2 1.3 |
| CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration | ppm ppm ppm % Abs/cm Abs/.1mm | method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 | limit/base >25 | current 4 3 8 current 0.4 6.9 | history1 2 <1 <1 history1 0.9 7.6 | history2 2 3 1 history2 1.3 8.2 |
| CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation | ppm ppm ppm % Abs/cm Abs/.1mm | method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 | limit/base >25 | current 4 3 8 current 0.4 6.9 18.8 | history1 2 <1 <1 history1 0.9 7.6 20.0 | history2 2 3 1 history2 1.3 8.2 20.4 |



OIL ANALYSIS REPORT



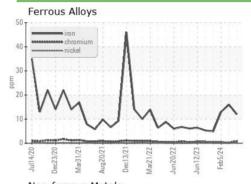


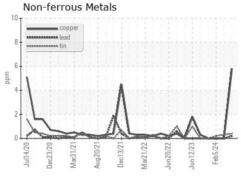


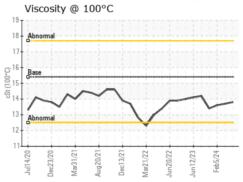
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | 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 |

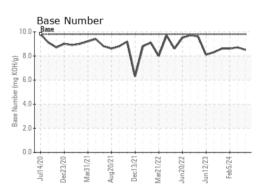
| FLUID PROPI | ERITES | method | ilmit/base | | nistory i | nistory∠ |
|--------------|--------|-----------|------------|------|-----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.8 | 13.7 | 13.6 |

GRAPHS













Certificate 12367

Laboratory Sample No. Unique Number : 10990497

Test Package : FLEET

: GFL0117461 Lab Number : 06155074

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

Received **Tested** Diagnosed

: 19 Apr 2024 : 22 Apr 2024 : 22 Apr 2024 - Wes Davis

GFL Environmental - 001 - Raleigh(CNG) 3741 Conquest Drive Garner, NC

US 27529 Contact: Craig Johnson craig.johnson@gflenv.com

T: (919)662-7100

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) F: (919)662-7130

Report Id: GFL001 [WUSCAR] 06155074 (Generated: 04/22/2024 23:55:53) Rev: 1