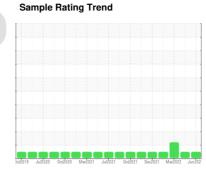


OIL ANALYSIS REPORT

(YA150071) **AUTOCAR 11000**

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 GAL)





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

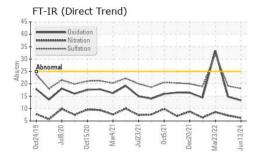
Fluid Condition

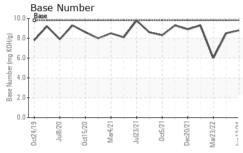
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

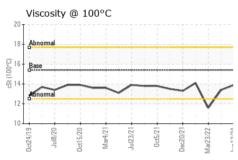
| SAMPLE INFOR | MATION | method | limit/base | current | history1 | history2 |
|---|----------|-------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | GFL0119669 | GFL0111397 | GFL0046014 |
| Sample Date | | Client Info | | 13 Jun 2024 | 03 Feb 2024 | 23 Mar 2022 |
| Machine Age | hrs | Client Info | | 11520 | 0 | 5102 |
| Oil Age | hrs | Client Info | | 0 | 0 | 4041 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | ATTENTION |
| CONTAMINAT | ION | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | 1.7 |
| Water | | WC Method | | NEG | NEG | NEG |
| Glycol | | WC Method | 70.L | NEG | NEG | NEG |
| WEAR METAL | S | method | limit/base | current | history1 | history2 |
| | | | | | | |
| Iron | ppm | ASTM D5185m | >75 | 10 | 18 | 50 |
| Chromium | ppm | ASTM D5185m | >5 | <1 | 1 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >15 | 2 | 1 | 11 |
| Lead | ppm | ASTM D5185m | >25 | 0 | <1 | 12 |
| Copper | ppm | ASTM D5185m | >100 | <1 | 1 | 9 |
| Tin | ppm | ASTM D5185m | >4 | 0 | <1 | 1 |
| Antimony | ppm | ASTM D5185m | | | | |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 6 | 3 | 19 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 60 | 58 | 62 | 46 |
| Manganese | ppm | ASTM D5185m | 0 | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 1010 | 938 | 947 | 745 |
| Calcium | ppm | ASTM D5185m | 1070 | 1082 | 1000 | 869 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1011 | 953 | 862 |
| Zinc | ppm | ASTM D5185m | 1270 | 1258 | 1209 | 959 |
| Sulfur | ppm | ASTM D5185m | 2060 | 2993 | 2957 | 2366 |
| CONTAMINAN | ITS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 4 | 5 | 6 |
| Sodium | ppm | ASTM D5185m | | 4 | 0 | 52 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 2 | 0 |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >6 | 0.3 | 0.4 | 0.5 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 6.2 | 7.2 | 8.6 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 18.1 | 19.1 | 32.0 |
| FLUID DEGRADATION method limit/base current history1 history2 | | | | | | |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 13.3 | 14.8 | 33.4 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 8.8 | 8.5 | 6.0 |
| | | | | | | |



OIL ANALYSIS REPORT



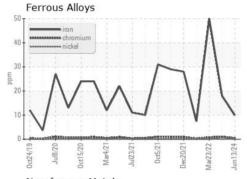


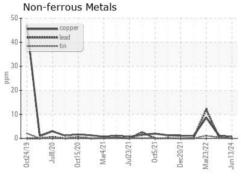


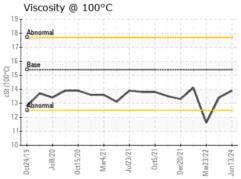
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate |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

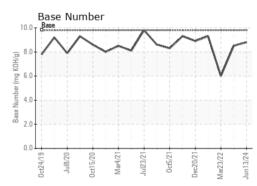
| FLUID PROPI | EKIIES | method | ilmit/base | | nistory i | nistory∠ |
|--------------|--------|-----------|------------|------|-----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.9 | 13.4 | 11.6 |

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0119669 Lab Number : 06216488

Unique Number : 11089352 Test Package : FLEET

Received **Tested** Diagnosed

: 20 Jun 2024 : 22 Jun 2024 : 22 Jun 2024 - Wes Davis

GFL Environmental - 004 - Newport - Central Coast 427 Roberts Road Newport, NC US 28570

Contact: Marquis Williams marquis.williams@gflenv.com

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: (252)223-6010

T: