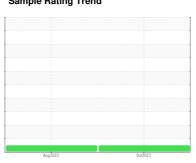


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **427176 - SW4715**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- 0

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

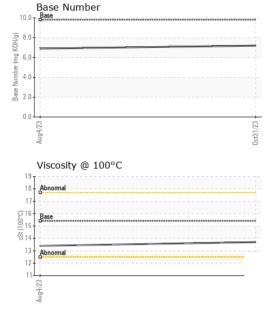
Fluid Condition

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

| iAL) | | | Aug ² 023 | Oct2023 | | |
|------------------|----------|-------------|----------------------|-------------|-------------|----------|
| SAMPLE INFORM | /ATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | GFL0094105 | GFL0089379 | |
| Sample Date | | Client Info | | 31 Oct 2023 | 04 Aug 2023 | |
| Machine Age | mls | Client Info | | 375454 | 365932 | |
| Oil Age | mls | Client Info | | 375454 | 0 | |
| Oil Changed | | Client Info | | N/A | Changed | |
| Sample Status | | | | NORMAL | NORMAL | |
| CONTAMINATI | ON | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | |
| Glycol | | WC Method | | NEG | NEG | |
| WEAR METALS | 3 | method | limit/base | current | history1 | history2 |
| ron | ppm | ASTM D5185m | >100 | 6 | 5 | |
| Chromium | ppm | ASTM D5185m | >20 | <1 | 0 | |
| Nickel | ppm | ASTM D5185m | >4 | <1 | 0 | |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | <1 | |
| _ead | ppm | ASTM D5185m | >40 | 4 | 4 | |
| Copper | ppm | ASTM D5185m | >330 | <1 | <1 | |
| Γin | ppm | ASTM D5185m | >15 | 0 | <1 | |
| √anadium | ppm | ASTM D5185m | | 0 | <1 | |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 0 | 0 | |
| Barium | ppm | ASTM D5185m | 0 | 5 | 0 | |
| Molybdenum | ppm | ASTM D5185m | 60 | 51 | 44 | |
| Manganese | ppm | ASTM D5185m | 0 | <1 | <1 | |
| Magnesium | ppm | ASTM D5185m | 1010 | 12 | 17 | |
| Calcium | ppm | ASTM D5185m | 1070 | 2468 | 2558 | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1052 | 1087 | |
| Zinc | ppm | ASTM D5185m | 1270 | 1218 | 1381 | |
| Sulfur | ppm | ASTM D5185m | 2060 | 3058 | 4004 | |
| CONTAMINAN | TS | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 7 | 7 | |
| Sodium | ppm | ASTM D5185m | | 0 | 2 | |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 2 | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | >3 | 0.1 | 0.2 | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 6.9 | 6.9 | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 17.3 | 17.3 | |
| FLUID DEGRAD | ATION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 9.5 | 9.6 | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 7.2 | 6.9 | |
| | | | | | | |



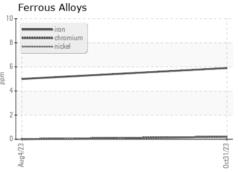
OIL ANALYSIS REPORT

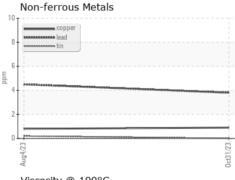


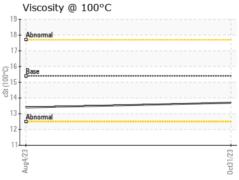
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------------|--------------|---------|------------------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | |
| Silt | scalar | *Visual | NONE | NONE | NONE | |
| Debris | scalar | *Visual | NONE | NONE | NONE | |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | |
| Appearance | scalar | *Visual | NORML | NORML | NORML | |
| Odor | scalar | *Visual | NORML | NORML | NORML | |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | |
| Free Water | scalar | *Visual | | NEG | NEG | |
| | DTIEO | us a the a al | lineit/lenen | | la i a t a un ed | histow.0 |

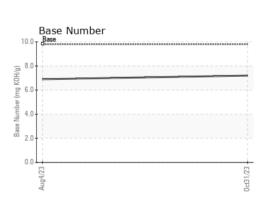
| | FLUID PROPE | THIES | method | | | HISTORY | History∠ |
|---|--------------|-------|-----------|------|------|---------|----------|
| , | Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.7 | 13.4 | |

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

: 06000366 Unique Number : 10728726

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0094105 Received : 07 Nov 2023 Diagnosed

: 08 Nov 2023 Diagnostician : Don Baldridge

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)

GFL Environmental - 983 - Sugar Land Hauling

16011 West Belfort Street Sugar Land, TX US 77498

Contact: Gino Griego ggriego@gflenv.com T: (720)999-0726