



| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Area
(WXQ193)
Machine Id
ISUZU 10880
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | GFL0116810 | GFL0116796 | GFL0109035 |
| Sample Date | | Client Info | | 09 May 2024 | 17 Apr 2024 | 05 Mar 2024 |
| Machine Age | hrs | Client Info | | 17056 | 16898 | 16601 |
| Oil Age | hrs | Client Info | | 7421 | 7263 | 6966 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 9 | 6 | 7 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 1 | 2 |
| Lead | ppm | ASTM D5185m | >40 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >330 | 3 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

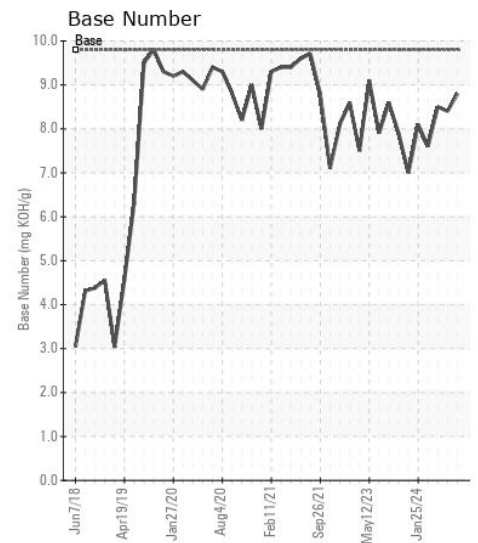
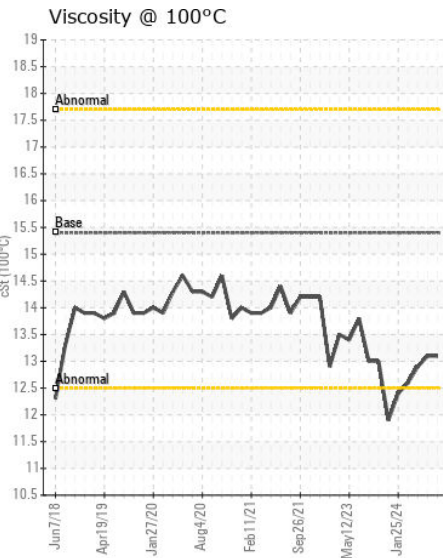
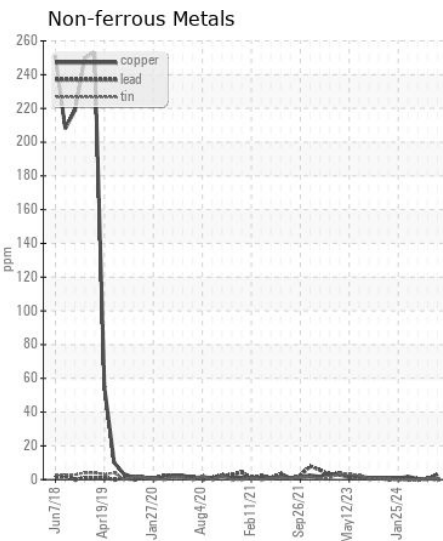
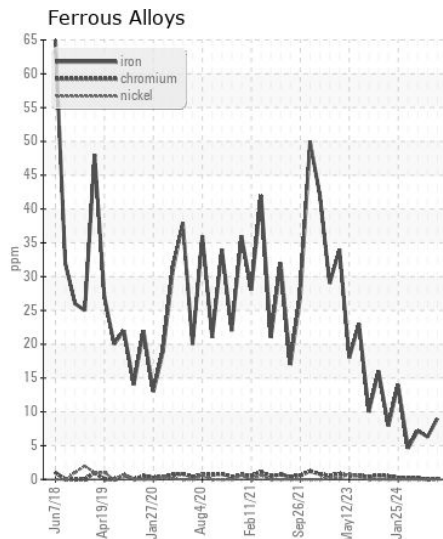
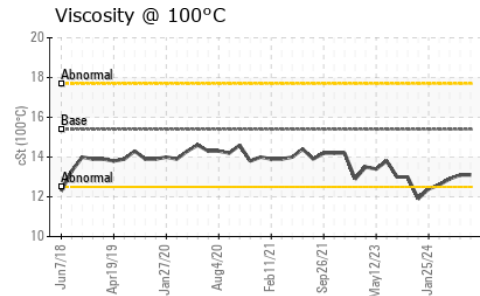
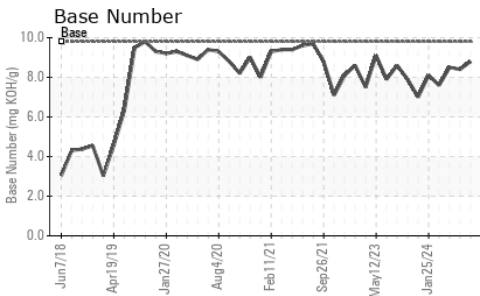
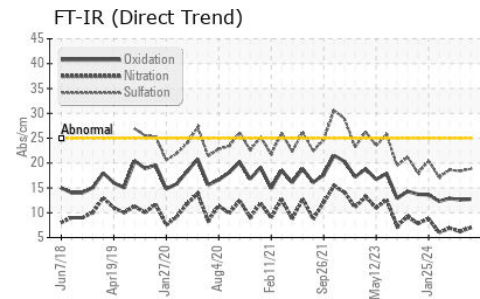
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 3 | 2 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | 2 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 1.3 | 0.9 | 1.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.0 | 6.2 | 6.9 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 18.8 | 18.4 | 18.6 |
| 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 |

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.

| | | | | | | |
|------------------|----------|-------------|------|-------------|------|------|
| Sodium | ppm | ASTM D5185m | | 2 | <1 | 2 |
| Boron | ppm | ASTM D5185m | 0 | 9 | 4 | 12 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 60 | 57 | 59 | 59 |
| Manganese | ppm | ASTM D5185m | 0 | 1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 1010 | 844 | 840 | 740 |
| Calcium | ppm | ASTM D5185m | 1070 | 1099 | 1145 | 1118 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 989 | 990 | 868 |
| Zinc | ppm | ASTM D5185m | 1270 | 1163 | 1145 | 1092 |
| Sulfur | ppm | ASTM D5185m | 2060 | 3248 | 3445 | 2823 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 12.7 | 12.6 | 12.9 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | 8.8 | 8.4 | 8.5 |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.1 | 13.1 | 12.9 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0116810
Lab Number : 06176737
Unique Number : 11022790
Test Package : FLEET

Received : 13 May 2024
Tested : 14 May 2024
Diagnosed : 14 May 2024 - Wes Davis

GFL Environmental - 009 - Fairburn
 6905 Roosevelt Hwy
 Fairburn, GA
 US 30213
 Contact: Eric Jones
 erjones@gflenv.com
 T: (678)630-9927
 F:

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)