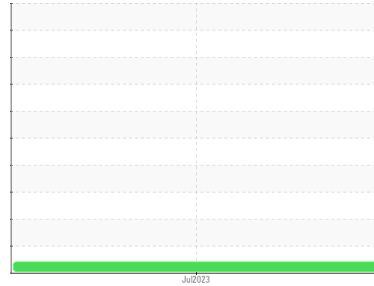




OIL ANALYSIS REPORT

Area
{UNASSIGNED}
Machine Id
OR779
Component
Swing Drive
Fluid
PETRO CANADA TRAXON XL SYN BLEND 80W140 (8 LTR)

Sample Rating Trend



VISCOSITY



DIAGNOSIS

▲ Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. 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

Viscosity of sample indicates oil is within SAE 40 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| method | limit/base | current | history 1 | history 2 |
|---------------|-------------|--------------------|--------------|-----------|
| Sample Number | Client Info | GFL0087395 | --- | --- |
| Sample Date | Client Info | 05 Jul 2023 | --- | --- |
| Machine Age | hrs | Client Info | 16325 | --- |
| Oil Age | hrs | Client Info | 500 | --- |
| Oil Changed | Client Info | Not Chngd | --- | --- |
| Sample Status | | ABNORMAL | --- | --- |

WEAR METALS

| method | limit/base | current | history 1 | history 2 | | |
|-----------|------------|---------------|-----------|--------------|-----|-----|
| Iron | ppm | ASTM D5185(m) | >400 | 291 | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >10 | 1 | --- | --- |
| Nickel | ppm | ASTM D5185(m) | >10 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185(m) | | <1 | --- | --- |
| Silver | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >25 | 2 | --- | --- |
| Lead | ppm | ASTM D5185(m) | >50 | 0 | --- | --- |
| Copper | ppm | ASTM D5185(m) | >200 | <1 | --- | --- |
| Tin | ppm | ASTM D5185(m) | >10 | 0 | --- | --- |
| Antimony | ppm | ASTM D5185(m) | >5 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Beryllium | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Cadmium | ppm | ASTM D5185(m) | | 0 | --- | --- |

ADDITIVES

| method | limit/base | current | history 1 | history 2 | | |
|------------|------------|---------------|-----------|--------------|-----|-----|
| Boron | ppm | ASTM D5185(m) | 246 | 2 | --- | --- |
| Barium | ppm | ASTM D5185(m) | 1 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | | <1 | --- | --- |
| Manganese | ppm | ASTM D5185(m) | | 2 | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | 1 | 13 | --- | --- |
| Calcium | ppm | ASTM D5185(m) | 2 | 3114 | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | 976 | 1093 | --- | --- |
| Zinc | ppm | ASTM D5185(m) | 3 | 1238 | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | 15600 | 9309 | --- | --- |
| Lithium | ppm | ASTM D5185(m) | | <1 | --- | --- |

CONTAMINANTS

| method | limit/base | current | history 1 | history 2 | | |
|-----------|------------|---------------|-----------|-----------|-----|-----|
| Silicon | ppm | ASTM D5185(m) | >50 | 13 | --- | --- |
| Sodium | ppm | ASTM D5185(m) | | 2 | --- | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | 1 | --- | --- |

VISUAL

| method | limit/base | current | history 1 | history 2 | | |
|------------------|------------|---------|-----------|--------------|-----|-----|
| White Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Precipitate | scalar | Visual* | NONE | NONE | --- | --- |
| Silt | scalar | Visual* | NONE | NONE | --- | --- |
| Debris | scalar | Visual* | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | Visual* | NONE | NONE | --- | --- |
| Appearance | scalar | Visual* | NORML | NORML | --- | --- |
| Odor | scalar | Visual* | NORML | NORML | --- | --- |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | --- | --- |
| Free Water | scalar | Visual* | | NEG | --- | --- |



OIL ANALYSIS REPORT

▲ Viscosity @ 40°C



FLUID PROPERTIES

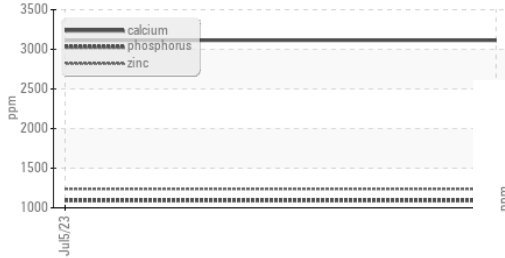
Visc @ 40°C cSt ASTM D7279(m) 253.0 ▲ 97.7 --- ---

SAMPLE IMAGES

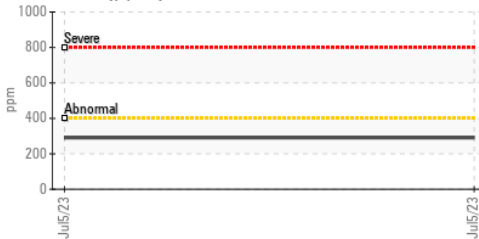
| Property | Method | Limit/Base | Current | History 1 | History 2 |
|----------|--------|------------|---------|-----------|-----------|
| Color | | | | no image | no image |
| Bottom | | | | no image | no image |

GRAPHS

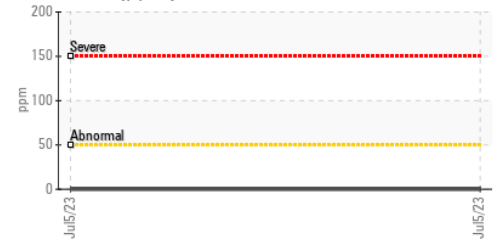
Additives



Iron (ppm)



Lead (ppm)



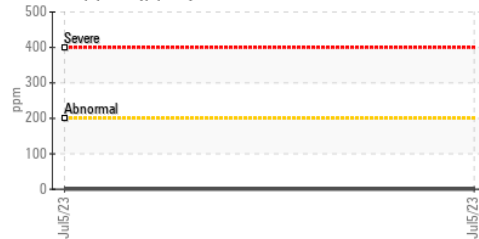
Aluminum (ppm)



Chromium (ppm)



Copper (ppm)



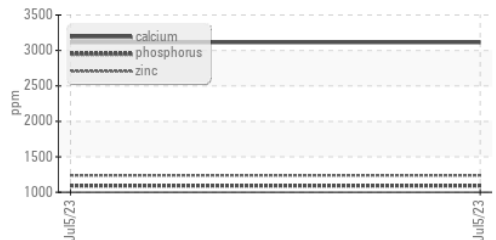
Silicon (ppm)



▲ Viscosity @ 40°C



Additives



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 720 - Lafleche - Landfill
Sample No. : GFL0087395 **Received** : 10 Jul 2023
Lab Number : 02568850 **Diagnosed** : 11 Jul 2023
Unique Number : 5605896 **Diagnostician** : Kevin Marson
Test Package : MOB 1

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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