



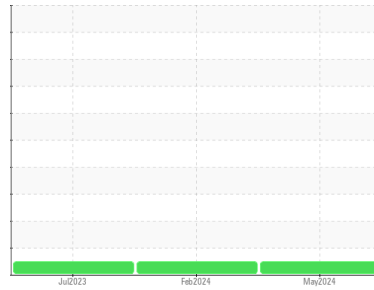
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
EX0358
 Component
Center Swing Drive
 Fluid
PETRO CANADA TRAXON E SYNTHETIC 80W-140 (5 LTR)



DIAGNOSIS

Recommendation

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

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | GFL0113349 | GFL0092325 | GFL0087389 |
| Sample Date | Client Info | | 16 May 2024 | 09 Feb 2024 | 28 Jul 2023 |
| Machine Age | hrs | Client Info | 22579 | 22386 | 22000 |
| Oil Age | hrs | Client Info | 198 | 22386 | 1000 |
| Oil Changed | Client Info | | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.2 | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|--------------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185(m) >400 | 55 | 20 | 33 |
| Chromium | ppm | ASTM D5185(m) >10 | <1 | 1 | <1 |
| Nickel | ppm | ASTM D5185(m) >10 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185(m) | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) >25 | <1 | 1 | <1 |
| Lead | ppm | ASTM D5185(m) >50 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185(m) >200 | 4 | 3 | 3 |
| Tin | ppm | ASTM D5185(m) >10 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185(m) >5 | 17 | 0 | 19 |
| Vanadium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|---------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) 202 | 254 | 81 | 280 |
| Barium | ppm | ASTM D5185(m) <1 | <1 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185(m) | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185(m) <1 | 3 | 14 | 3 |
| Calcium | ppm | ASTM D5185(m) | 258 | 2807 | 265 |
| Phosphorus | ppm | ASTM D5185(m) 1209 | 1085 | 659 | 1158 |
| Zinc | ppm | ASTM D5185(m) 1 | 12 | 129 | 11 |
| Sulfur | ppm | ASTM D5185(m) 20439 | 19491 | 3289 | 19077 |
| Lithium | ppm | ASTM D5185(m) | 1 | <1 | <1 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|-------------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185(m) >50 | 6 | 3 | 11 |
| Sodium | ppm | ASTM D5185(m) | 2 | 2 | <1 |
| Potassium | ppm | ASTM D5185(m) >20 | 1 | 2 | 1 |

