

## **GREASE ANALYSIS**

Sample Rating Trend



# AFT CRANE

Component Forward Grease Fluid

PETRO CANADA PRECISION XL EP2 (--- GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### **Grease Condition**

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

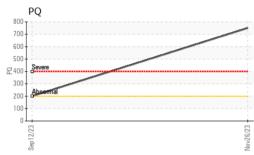
## Contaminants

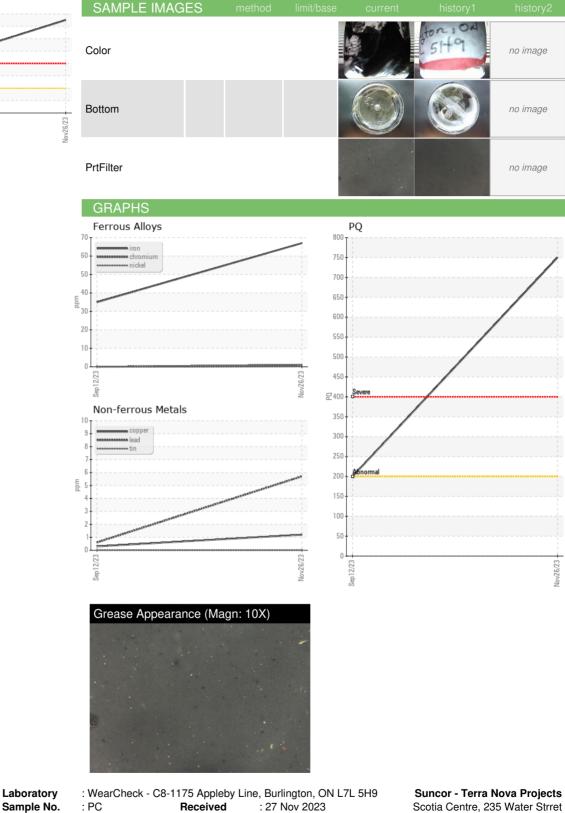
There is no indication of any contamination in the grease.

|                  |                  |               | Sep2023    | Nov2023     |             |          |
|------------------|------------------|---------------|------------|-------------|-------------|----------|
| SAMPLE INFOR     | MATION           | method        | limit/base | current     | history1    | history2 |
| Sample Number    |                  | Client Info   |            | PC          | PC          |          |
| Sample Date      |                  | Client Info   |            | 26 Nov 2023 | 12 Sep 2023 |          |
| Machine Age      | hrs              | Client Info   |            | 0           | 0           |          |
| Grease Age       | hrs              | Client Info   |            | 0           | 0           |          |
| Grease Serviced  |                  | Client Info   |            | N/A         | N/A         |          |
| Sample Status    |                  |               |            | NORMAL      | NORMAL      |          |
| CONTAMINAT       | ION              | method        | limit/base | current     | history1    | history2 |
| Water            |                  | WC Method     | >0.1       | NEG         | NEG         |          |
| WEAR METAL       | .S               | method        | limit/base | current     | history1    | history2 |
| PQ               |                  | ASTM D8184*   | >200       | 750         | 200         |          |
| Iron             | ppm              | ASTM D5185(m) | >250       | 67          | 35          |          |
| Chromium         | ppm              | ASTM D5185(m) | >10        | <1          | 0           |          |
| Nickel           | ppm              | ASTM D5185(m) | >5         | 1           | 0           |          |
| Cadmium          | ppm              | ASTM D5185(m) |            | 0           | 0           |          |
| Titanium         | ppm              | ASTM D5185(m) |            | 0           | 0           |          |
| Vanadium         | ppm              | ASTM D5185(m) |            | 0           | 0           |          |
| Lead             | ppm              | ASTM D5185(m) | >25        | 6           | <1          |          |
| Copper           | ppm              | ASTM D5185(m) | >75        | 1           | <1          |          |
| Tin              | ppm              | ASTM D5185(m) | >5         | 0           | 0           |          |
| Silver           | ppm              | ASTM D5185(m) | >5         | <1          | 0           |          |
| ADDITIVES        |                  | method        | limit/base | current     | history1    | history2 |
| Boron            | ppm              | ASTM D5185(m) |            | 2           | <1          |          |
| Magnesium        | ppm              | ASTM D5185(m) |            | 12          | 2           |          |
| Manganese        | ppm              | ASTM D5185(m) |            | <1          | <1          |          |
| Molybdenum       | ppm              | ASTM D5185(m) |            | 205         | 150         |          |
| Phosphorus       | ppm              | ASTM D5185(m) |            | 48          | 13          |          |
| Zinc             | ppm              | ASTM D5185(m) |            | 61          | 34          |          |
| Antimony         | ppm              | ASTM D5185(m) |            | 24          | 8           |          |
| THICKENER/S      | SOAP             | method        | limit/base | current     | history1    | history2 |
| Aluminum         | ppm              | ASTM D5185(m) |            | 3           | <1          |          |
| Barium           | ppm              | ASTM D5185(m) |            | 3           | <1          |          |
| Calcium          | ppm              | ASTM D5185(m) |            | 127         | 62          |          |
| Sodium           | ppm              | ASTM D5185(m) |            | 54          | 21          |          |
| Lithium          | ppm              | ASTM D5185(m) |            | 201         | 115         |          |
| Sulfur           | ppm              | ASTM D5185(m) |            | 688         | 520         |          |
| CONTAMINAN       | ITS              | method        | limit/base | current     | history1    | history2 |
| Silicon          | ppm              | ASTM D5185(m) | >150       | 4           | 2           |          |
| Potassium        | ppm              | ASTM D5185(m) |            | 2           | 2           |          |
| GREASE CON       | IDIT <u>IO</u> N | method        | limit/base | current     | history1    | history2 |
| Grease Color     |                  | Visual*       | Brown      | Green       | Green       |          |
| Texture          |                  | In-house*     | Stringy    | Short fiber | Short fiber |          |
| NLGI Consistency | NLGI Scale       | SKF Method*   | 2          | 2           | 2           |          |
| - ,              |                  |               |            |             |             |          |



# **GREASE ANALYSIS**







 Iso 17025:2017
 Lab Number
 : 02599172
 Diagnosed
 : 29 Nov 2023

 Accredited Laboratory
 Unique Number
 : 5684252
 Diagnostician
 : Bill Quesnel

 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.

 Suncor - Terra Nova Projects Scotia Centre, 235 Water Strret St. John`s, NL CA A1C 1B6 Contact: Deanne Badcock dbadcock@suncor.com T: (709)778-3843 F: (709)724-2784

CALA