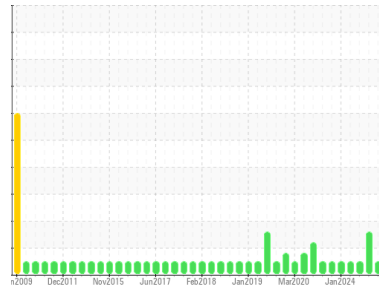


GREASE ANALYSIS

Sample Rating Trend



NORMAL



Area

Turret

Machine Id

Turret Swivel #3 - 12" Production Grease Sample (S/N Sample Tag: NC-21602)

Component

Grease

Fluid

PETRO CANADA GREASE OG-1 (--- 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.

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 |
|-----------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | PC | PC | PC0078285 |
| Sample Date | Client Info | 19 May 2024 | 16 Apr 2024 | 01 Apr 2024 |
| Machine Age | days | Client Info | 0 | 0 |
| Grease Age | days | Client Info | 0 | 0 |
| Grease Serviced | Client Info | N/A | N/A | N/A |
| Sample Status | | NORMAL | ATTENTION | NORMAL |

CONTAMINATION

| method | limit/base | current | history1 | history2 |
|--------|------------|---------|------------|----------|
| Water | WC Method | >0.1 | NEG | NEG |

WEAR METALS

| method | limit/base | current | history1 | history2 | |
|----------|-------------|---------------|----------|----------|---|
| PQ | ASTM D8184* | >200 | 0 | 0 | |
| Iron | ppm | ASTM D5185(m) | >250 | 3 | 4 |
| Chromium | ppm | ASTM D5185(m) | >10 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >5 | 0 | 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 | 0 | 0 |
| Copper | ppm | ASTM D5185(m) | >75 | 0 | 0 |
| Tin | ppm | ASTM D5185(m) | >5 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >5 | 0 | 0 |

ADDITIVES

| method | limit/base | current | history1 | history2 | |
|------------|------------|---------------|----------|-----------|----|
| Boron | ppm | ASTM D5185(m) | | 62 | 33 |
| Magnesium | ppm | ASTM D5185(m) | | 2 | 2 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | 0 |
| Phosphorus | ppm | ASTM D5185(m) | | 7 | 10 |
| Zinc | ppm | ASTM D5185(m) | | 12 | 8 |
| Antimony | ppm | ASTM D5185(m) | | 0 | 0 |

THICKENER/SOAP

| method | limit/base | current | history1 | history2 | |
|----------|------------|---------------|----------|-------------|-----|
| Aluminum | ppm | ASTM D5185(m) | | 1 | <1 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 |
| Calcium | ppm | ASTM D5185(m) | | 1507 | 793 |
| Sodium | ppm | ASTM D5185(m) | | 9 | 6 |
| Lithium | ppm | ASTM D5185(m) | | 30 | 57 |
| Sulfur | ppm | ASTM D5185(m) | | 512 | 457 |

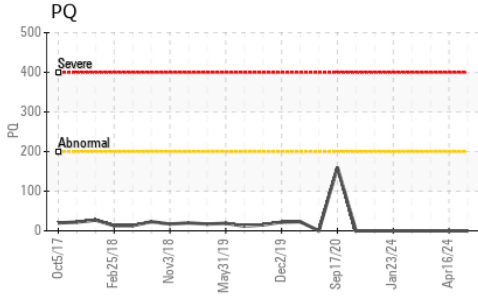
CONTAMINANTS

| method | limit/base | current | history1 | history2 | |
|-----------|------------|---------------|----------|-----------|----|
| Silicon | ppm | ASTM D5185(m) | >150 | 24 | 29 |
| Potassium | ppm | ASTM D5185(m) | | 1 | <1 |

GREASE CONDITION

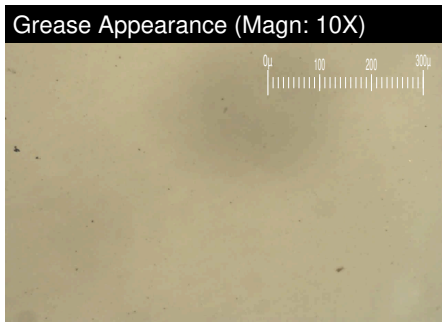
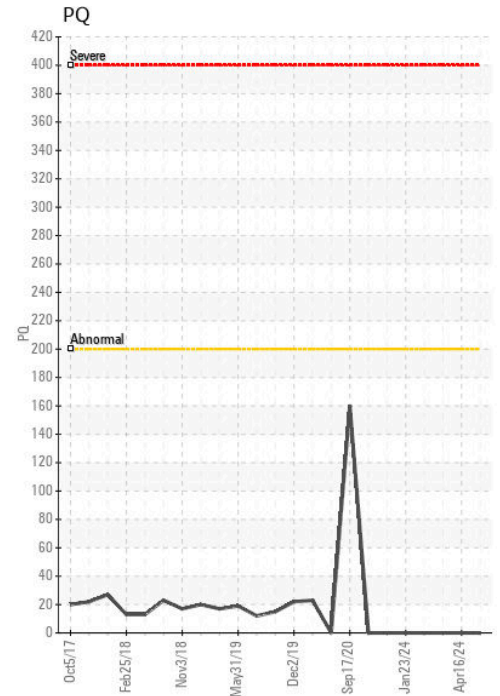
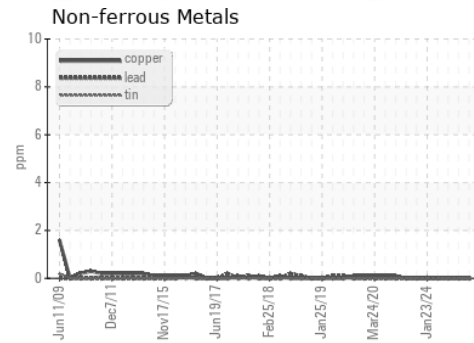
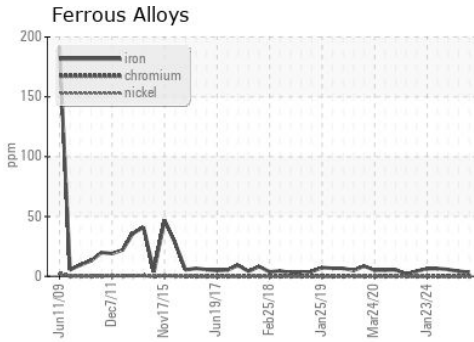
| method | limit/base | current | history1 | history2 |
|------------------|------------|-------------|----------------|----------|
| Grease Color | Visual* | Tan | Tan | Brown |
| Texture | In-house* | Buttery | Buttery | Stringy |
| NLGI Consistency | NLGI Scale | SKF Method* | 1 | 1 |

GREASE ANALYSIS



| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color | | | | | |
| Bottom | | | | | |
| PrtFilter | | | | | |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC
Lab Number : 02640380
Unique Number : 5789542
Test Package : GRS 1 (Additional Tests: BottomAnalysis)
Received : 06 Jun 2024
Tested : 07 Jun 2024
Diagnosed : 11 Jun 2024 - Bill Quesnel

Suncor - Terra Nova Projects
 Scotia Centre, 235 Water Street
 St. John's, NL
 CA A1C 1B6
 Contact: Josh Hynes
 joshhynes@suncor.com
 T: (709)778-3575
 F: (709)724-2835

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.