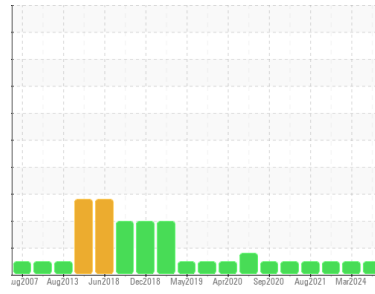


# GREASE ANALYSIS

Sample Rating Trend



**NORMAL**



Area

**CRANES**

Machine Id

**Crane (Fwd) - Slew Brg Grease (S/N Sample Tag MA-04003-FWD)**

Component

**Forward Grease**

Fluid

**PETRO CANADA PRECISION XL EP2 (--- LTR)**

## 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	<b>PC</b>	PC	PC0052020
Sample Date	Client Info	<b>16 May 2024</b>	20 Mar 2024	10 Feb 2024
Machine Age	hrs	<b>0</b>	0	0
Grease Age	hrs	<b>0</b>	0	0
Grease Serviced	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184* >200	<b>7960</b>	1090	7098
Iron	ppm ASTM D5185(m) >250	<b>481</b>	77	709
Chromium	ppm ASTM D5185(m) >10	<b>1</b>	0	3
Nickel	ppm ASTM D5185(m) >5	<b>&lt;1</b>	0	<1
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0
Titanium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	0
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	0
Lead	ppm ASTM D5185(m) >25	<b>0</b>	0	0
Copper	ppm ASTM D5185(m) >75	<b>&lt;1</b>	1	<1
Tin	ppm ASTM D5185(m) >5	<b>0</b>	0	0
Silver	ppm ASTM D5185(m) >5	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185(m)	<b>4</b>	2	3
Manganese	ppm ASTM D5185(m)	<b>6</b>	0	9
Molybdenum	ppm ASTM D5185(m)	<b>17</b>	13	23
Phosphorus	ppm ASTM D5185(m)	<b>48</b>	110	43
Zinc	ppm ASTM D5185(m)	<b>69</b>	140	59
Antimony	ppm ASTM D5185(m)	<b>24</b>	65	29

## THICKENER/SOAP

method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185(m)	<b>&lt;1</b>	4	2
Barium	ppm ASTM D5185(m)	<b>3</b>	2	3
Calcium	ppm ASTM D5185(m)	<b>47</b>	52	49
Sodium	ppm ASTM D5185(m)	<b>19</b>	8	13
Lithium	ppm ASTM D5185(m)	<b>205</b>	260	219
Sulfur	ppm ASTM D5185(m)	<b>561</b>	793	585

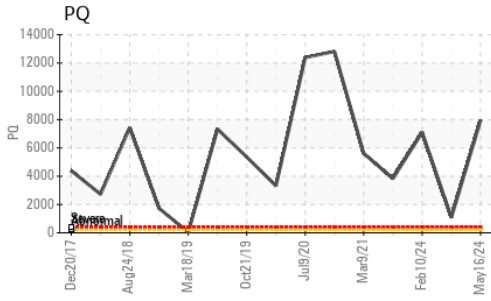
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >150	<b>2</b>	11	4
Potassium	ppm ASTM D5185(m)	<b>1</b>	1	2

## GREASE CONDITION

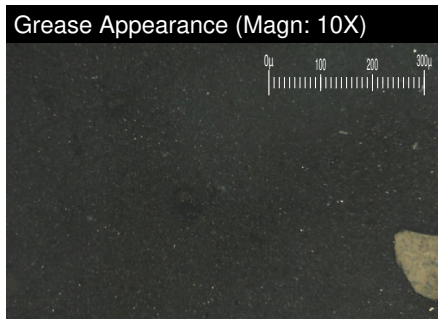
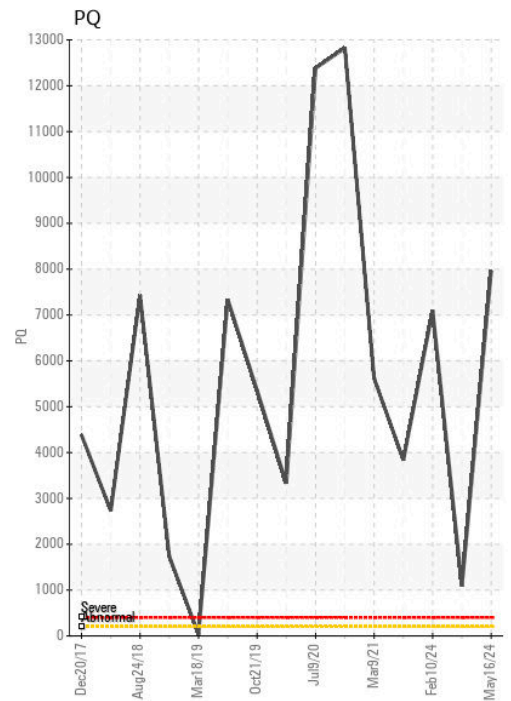
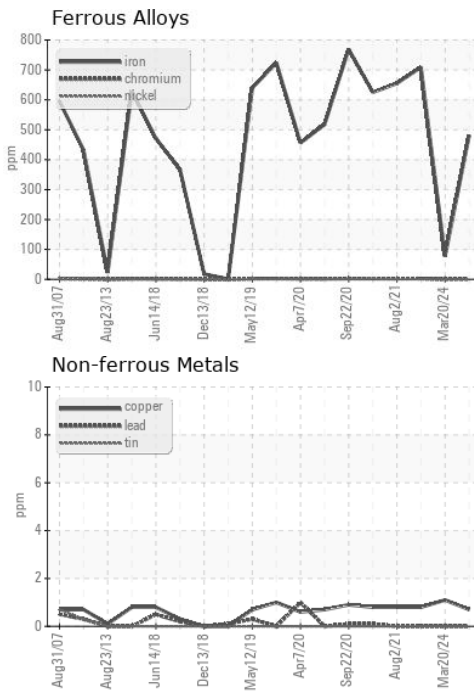
method	limit/base	current	history1	history2	
Grease Color	Visual*	Brown	<b>Black</b>	Brown	Black
Texture	In-house*	Stringy	<b>Brittle</b>	Buttery	Buttery
NLGI Consistency	NLGI Scale SKF Method*	2	<b>2</b>	3	1

# 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 **Received** : 04 Jun 2024  
**Lab Number** : 02639735 **Tested** : 05 Jun 2024  
**Unique Number** : 5788897 **Diagnosed** : 11 Jun 2024 - Bill Quesnel  
**Test Package** : GRS 1 ( Additional Tests: BottomAnalysis )

**Suncor - Terra Nova Projects**  
 Scotia Centre, 235 Water Street  
 St. John's, NL  
 CA A1C 1B6  
 Contact: Josh Hynes  
 joshynes@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.