

# GREASE ANALYSIS

Sample Rating Trend

**NORMAL**

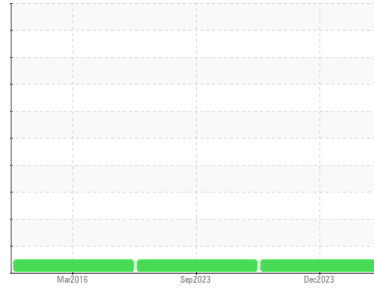


Area  
**[450240064]**

Machine Id  
**NC-05603 TORQUE TUBE BEARING**

Component  
**2 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	<b>PC</b>	PC	PC
Sample Date	Client Info	<b>20 Dec 2023</b>	18 Sep 2023	07 Mar 2016
Machine Age	hrs Client Info	<b>0</b>	0	0
Grease Age	hrs Client Info	<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>0</b>	0	---
Iron	ppm ASTM D5185(m) >250	<b>9</b>	14	1
Chromium	ppm ASTM D5185(m) >10	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m) >5	<b>0</b>	<1	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	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>	<1	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	<b>146</b>	182	2
Magnesium	ppm ASTM D5185(m)	<b>8</b>	13	<1
Manganese	ppm ASTM D5185(m)	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m)	<b>0</b>	0	<1
Phosphorus	ppm ASTM D5185(m)	<b>1</b>	4	9
Zinc	ppm ASTM D5185(m)	<b>47</b>	18	4
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	0

## THICKENER/SOAP

method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185(m)	<b>2</b>	2	0
Barium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	0
Calcium	ppm ASTM D5185(m)	<b>3727</b>	4570	11
Sodium	ppm ASTM D5185(m)	<b>13</b>	6	1
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	27
Sulfur	ppm ASTM D5185(m)	<b>702</b>	845	475

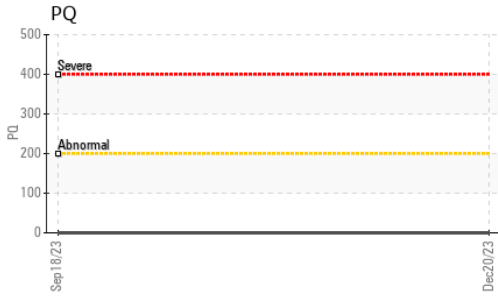
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >150	<b>3</b>	4	<1
Potassium	ppm ASTM D5185(m)	<b>4</b>	2	1

## GREASE CONDITION

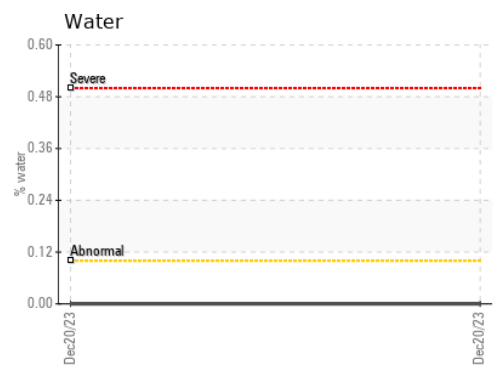
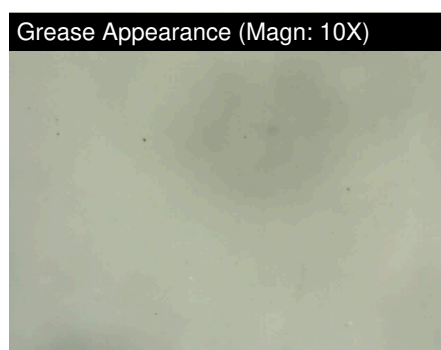
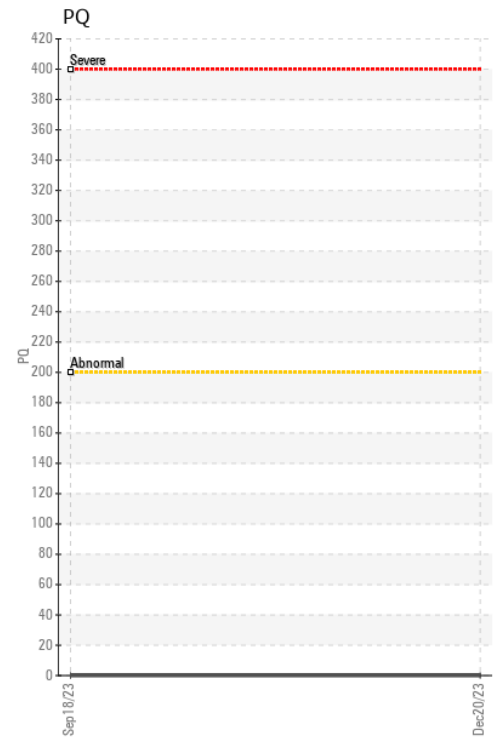
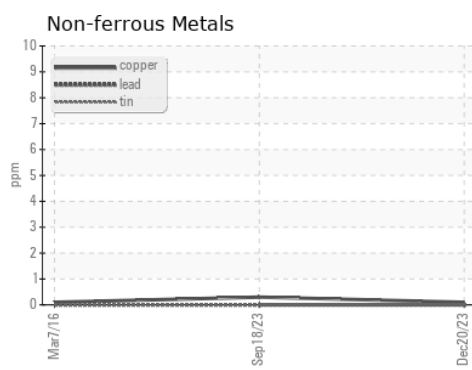
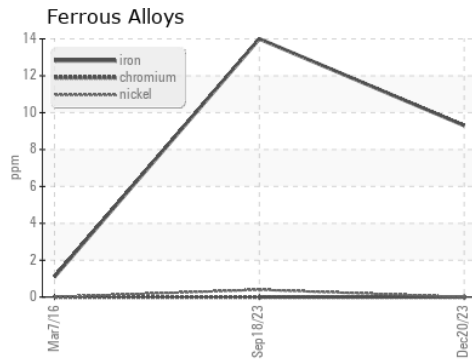
method	limit/base	current	history1	history2
Grease Color	Visual* Tan	<b>Cream</b>	Cream	---
Texture	In-house* Buttery	<b>Buttery</b>	Buttery	---
NLGI Consistency	NLGI Scale SKF Method* 1	<b>2</b>	1	---

# GREASE ANALYSIS



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter					no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC **Received** : 17 Jan 2024  
**Lab Number** : 02609582 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 5710668 **Diagnostician** : Bill Quesnel  
**Test Package** : GRS 1 ( Additional Tests: BottomAnalysis, KV40, Spat, TAN Auto )

**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.*