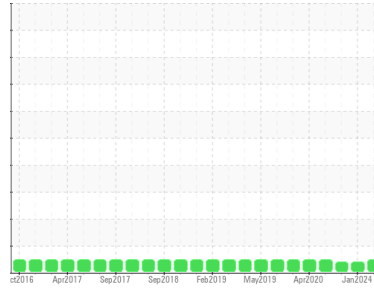


# GREASE ANALYSIS

Sample Rating Trend



**NORMAL**



Area

**Turret**

Machine Id

**GS04 - Torque Tube Brg Grease (S/N Sample Tag: NC-05603)**

Component

**Grease**

Fluid

**PETRO CANADA PRECISION SYNTHETIC (--- 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>23 Apr 2024</b>	16 Jan 2024	15 May 2023
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>	ATTENTION	ATTENTION

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>190</b>	640	240
Iron	ppm	ASTM D5185(m)	>250	<b>161</b>	188	166
Chromium	ppm	ASTM D5185(m)	>10	<b>2</b>	2	2
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	1	<1
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>1</b>	2	3
Copper	ppm	ASTM D5185(m)	>75	<b>17</b>	20	23
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	1	2
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0

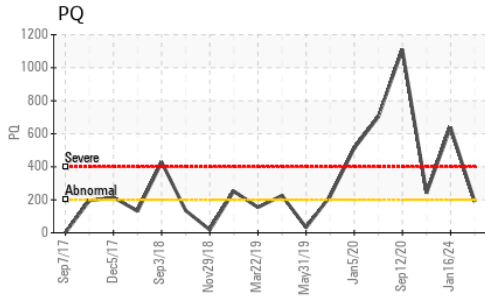
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>13</b>	5	1
Magnesium	ppm	ASTM D5185(m)		<b>6</b>	5	4
Manganese	ppm	ASTM D5185(m)		<b>2</b>	2	2
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Phosphorus	ppm	ASTM D5185(m)		<b>7</b>	8	19
Zinc	ppm	ASTM D5185(m)		<b>14</b>	10	5
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	<1

THICKENER/SOAP		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185(m)		<b>441</b>	236	44
Sodium	ppm	ASTM D5185(m)		<b>8</b>	9	6
Lithium	ppm	ASTM D5185(m)		<b>37</b>	46	48
Sulfur	ppm	ASTM D5185(m)		<b>372</b>	421	425

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>150	<b>1</b>	1	<1
Potassium	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	<1

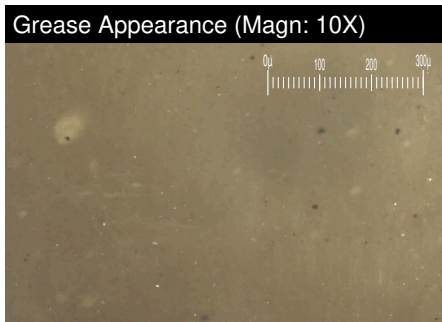
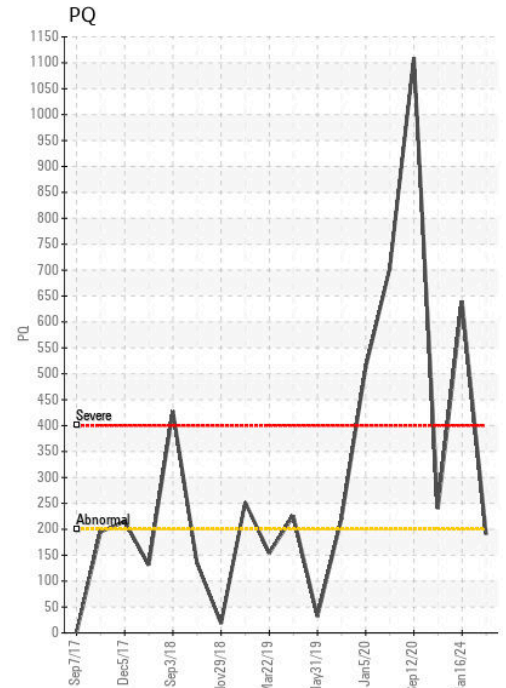
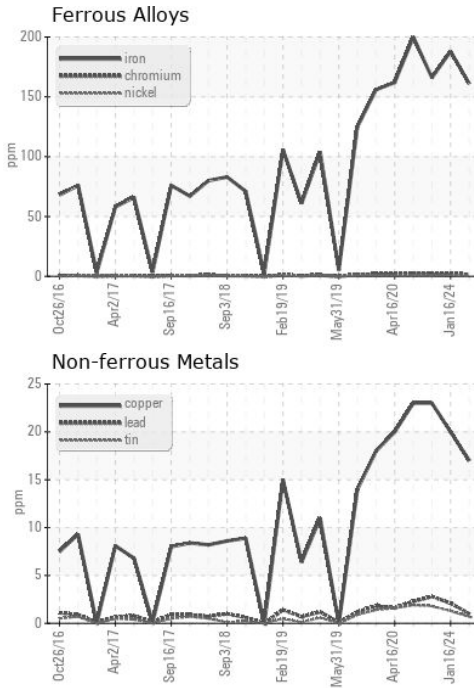
GREASE CONDITION		method	limit/base	current	history1	history2
Grease Color	Visual*		Gold	<b>Gold</b>	Brown	Gold
Texture	In-house*		Buttery	<b>Buttery</b>	Stringy	Stringy
NLGI Consistency	NLGI Scale	SKF Method*	1	<b>0-1</b>	0	0-1

# GREASE ANALYSIS



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

## GRAPHS



**CALA**  
ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC **Received** : 10 May 2024  
**Lab Number** : **02634835** **Tested** : 14 May 2024  
**Unique Number** : 5775988 **Diagnosed** : 15 May 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  
 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.