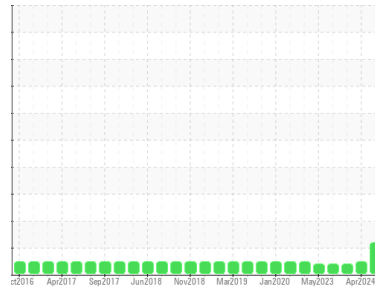


# GREASE ANALYSIS

Sample Rating Trend



**ADDITIVES**



Area  
**Turret [21051511]**  
Machine Id  
**GS03 - Torque Tube Brg Grease (S/N Sample Tag: NC-05603)**  
Component  
**Grease**  
Fluid  
**PETRO CANADA PRECISION SYNTHETIC (--- GAL)**

**DIAGNOSIS**

**Recommendation**

Confirm the source of the lubricant being utilized for top-up/fill. This appears to be a mixture of Petro-Canada Precision Synthetic and OG-1 grease. Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Grease Condition**

Additive levels indicate the addition of a different brand, or type of grease. 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>15 Jul 2024</b>	23 Apr 2024	16 Jan 2024
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>ATTENTION</b>	NORMAL	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>440</b>	130	770
Iron	ppm	ASTM D5185(m)	>250	<b>149</b>	190	206
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	2
Copper	ppm	ASTM D5185(m)	>75	<b>18</b>	19	21
Tin	ppm	ASTM D5185(m)	>5	<b>1</b>	1	1
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0

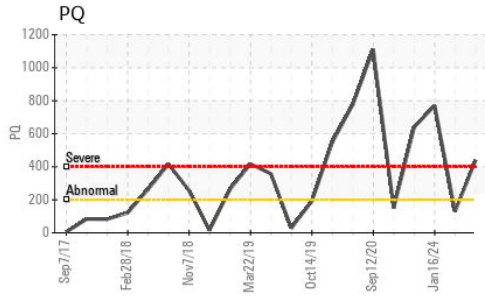
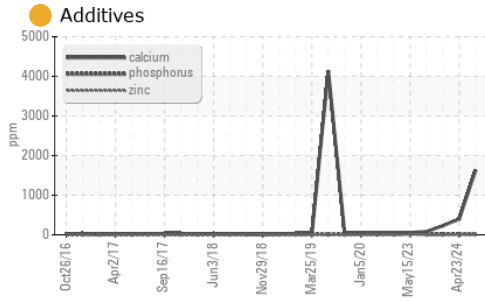
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>54</b>	11	4
Magnesium	ppm	ASTM D5185(m)		<b>10</b>	6	5
Manganese	ppm	ASTM D5185(m)		<b>2</b>	2	2
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185(m)		<b>7</b>	8	8
Zinc	ppm	ASTM D5185(m)		<b>42</b>	14	10
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0

THICKENER/SOAP		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)		<b>1</b>	<1	1
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185(m)		<b>1629</b>	398	228
Sodium	ppm	ASTM D5185(m)		<b>14</b>	10	9
Lithium	ppm	ASTM D5185(m)		<b>24</b>	43	51
Sulfur	ppm	ASTM D5185(m)		<b>495</b>	407	433

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

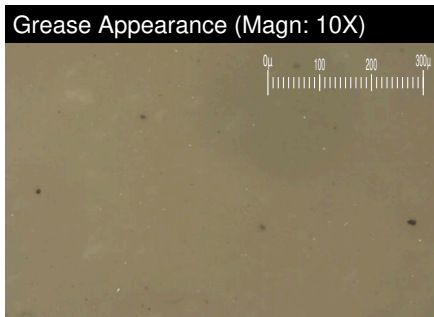
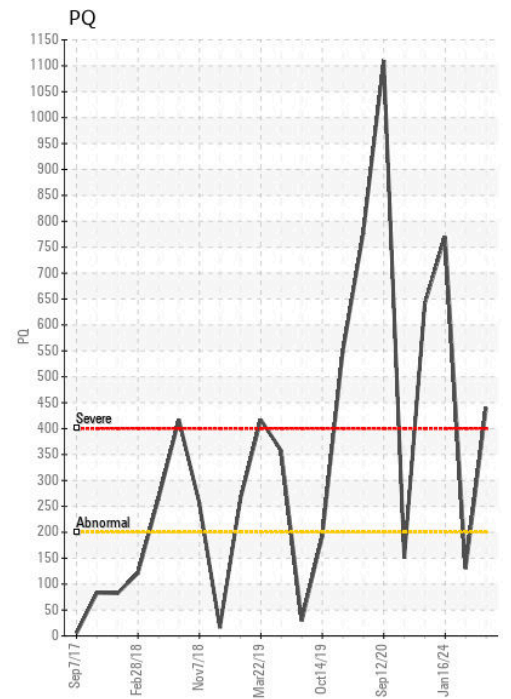
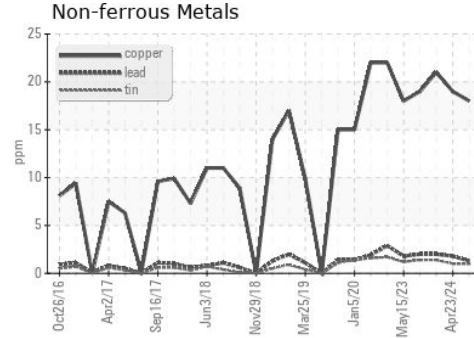
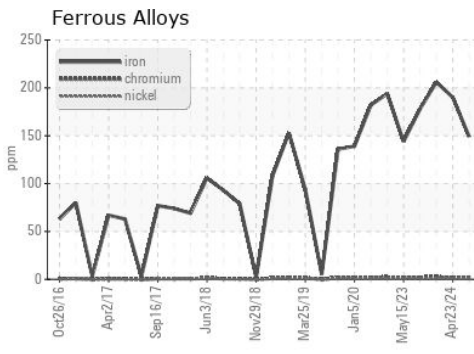
GREASE CONDITION		method	limit/base	current	history1	history2
Grease Color	Visual*		Gold	<b>Tan</b>	Gold	Brown
Texture	In-house*		Buttery	<b>Buttery</b>	Stringy	Stringy
NLGI Consistency	NLGI Scale	SKF Method*	1	<b>1</b>	0	0-1

# 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** : 16 Jul 2024  
**Lab Number** : 02648280 **Tested** : 17 Jul 2024  
**Unique Number** : 5813832 **Diagnosed** : 18 Jul 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.