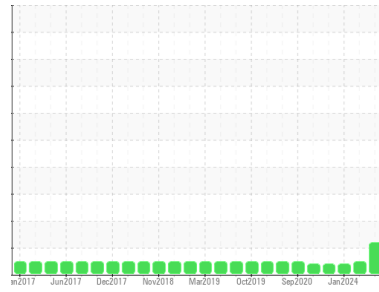


GREASE ANALYSIS

Sample Rating Trend



ADDITIVES



Area
Turret [21051511 1000657470]
 Machine Id
GS02 - 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 grease being utilized for lubrication servicing. 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			PC	PC	PC
Sample Date	Client Info			15 Jul 2024	23 Apr 2024	16 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Grease Age	hrs	Client Info		0	0	0
Grease Serviced	Client Info			N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	ATTENTION

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

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*	>200	450	120	560
Iron	ppm	ASTM D5185(m)	>250	143	160	165
Chromium	ppm	ASTM D5185(m)	>10	2	2	2
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Cadmium	ppm	ASTM D5185(m)		0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Lead	ppm	ASTM D5185(m)	>25	1	1	1
Copper	ppm	ASTM D5185(m)	>75	17	15	16
Tin	ppm	ASTM D5185(m)	>5	<1	<1	<1
Silver	ppm	ASTM D5185(m)	>5	0	0	0

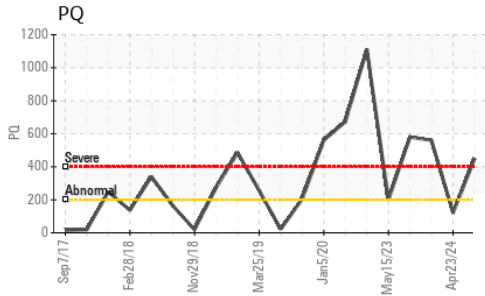
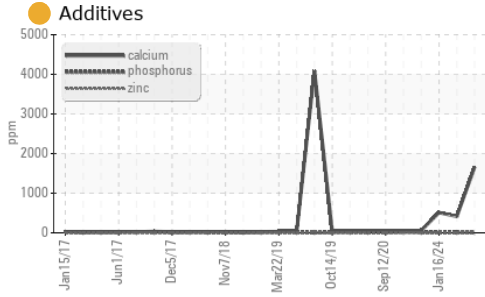
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		58	12	13
Magnesium	ppm	ASTM D5185(m)		10	6	7
Manganese	ppm	ASTM D5185(m)		2	2	2
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Phosphorus	ppm	ASTM D5185(m)		6	7	6
Zinc	ppm	ASTM D5185(m)		43	14	15
Antimony	ppm	ASTM D5185(m)		0	0	0

THICKENER/SOAP		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)		1	<1	<1
Barium	ppm	ASTM D5185(m)		<1	<1	0
Calcium	ppm	ASTM D5185(m)		1658	413	511
Sodium	ppm	ASTM D5185(m)		12	12	13
Lithium	ppm	ASTM D5185(m)		23	38	38
Sulfur	ppm	ASTM D5185(m)		498	391	411

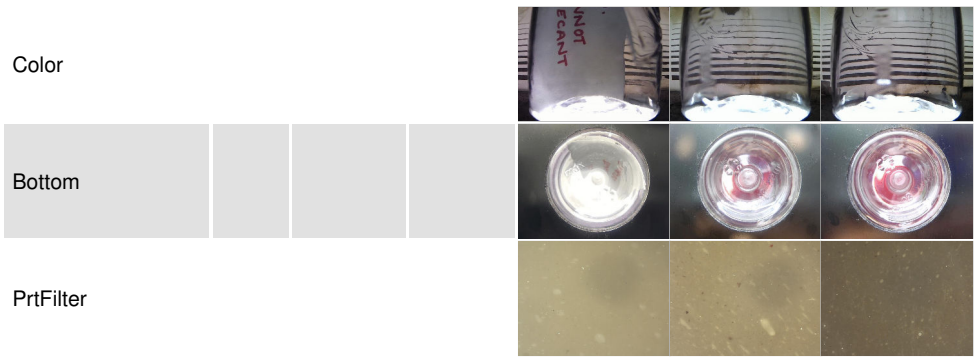
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>150	2	<1	1
Potassium	ppm	ASTM D5185(m)		1	<1	2

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

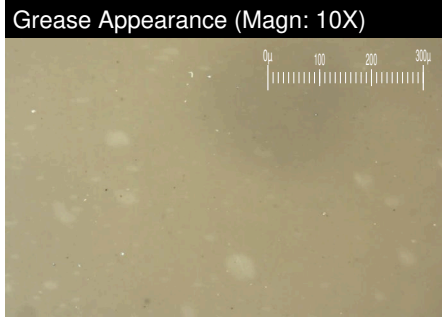
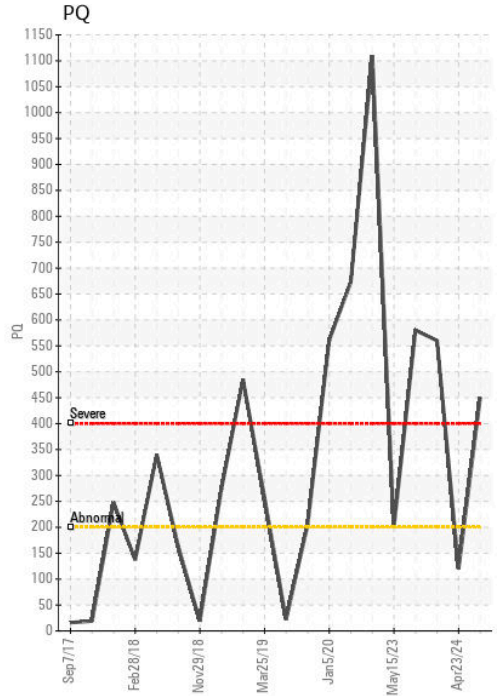
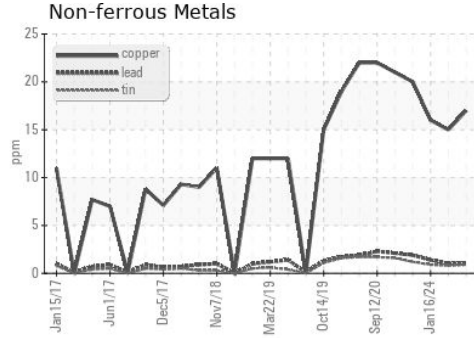
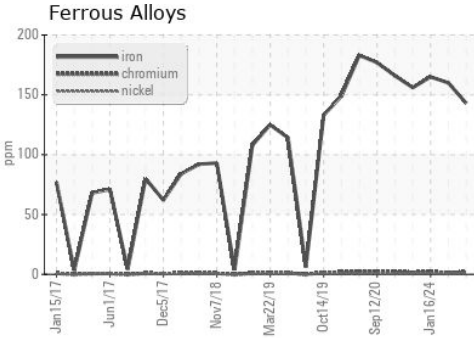
GREASE ANALYSIS



SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC
Lab Number : 02648278
Unique Number : 5813830
Test Package : GRS 1 (Additional Tests: BottomAnalysis)
Received : 16 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 18 Jul 2024 - Bill Quesnel

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.