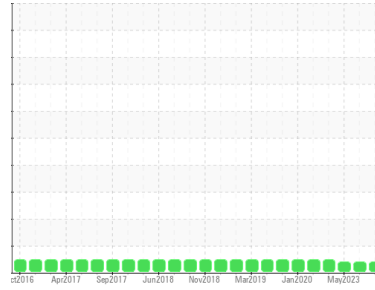


GREASE ANALYSIS

Sample Rating Trend

VIS DEBRIS

Area
Turret
Machine Id
GS03 - 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

Light concentration of visible dirt/debris present in the grease. No other contaminants were detected in the grease.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC	PC	PC
Sample Date	Client Info	16 Jan 2024	27 Jun 2023	15 May 2023
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	ATTENTION	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	770	640	150
Iron	ppm ASTM D5185(m) >250	206	178	144
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	2	2	2
Copper	ppm ASTM D5185(m) >75	21	19	18
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)	4	1	2
Magnesium	ppm ASTM D5185(m)	5	3	3
Manganese	ppm ASTM D5185(m)	2	2	2
Molybdenum	ppm ASTM D5185(m)	0	<1	<1
Phosphorus	ppm ASTM D5185(m)	8	9	35
Zinc	ppm ASTM D5185(m)	10	7	5
Antimony	ppm ASTM D5185(m)	0	<1	0

THICKENER/SOAP

method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185(m)	1	<1	<1
Barium	ppm ASTM D5185(m)	0	0	0
Calcium	ppm ASTM D5185(m)	228	80	56
Sodium	ppm ASTM D5185(m)	9	6	6
Lithium	ppm ASTM D5185(m)	51	45	41
Sulfur	ppm ASTM D5185(m)	433	393	427

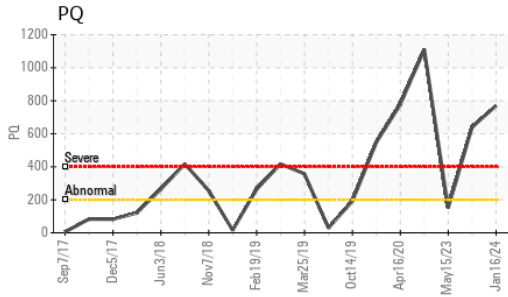
CONTAMINANTS

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

GREASE CONDITION

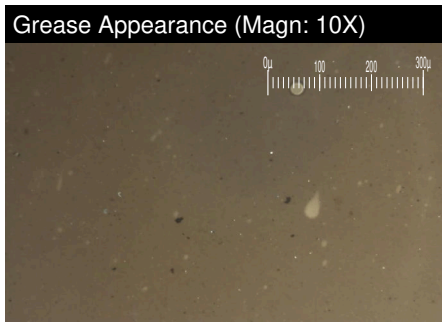
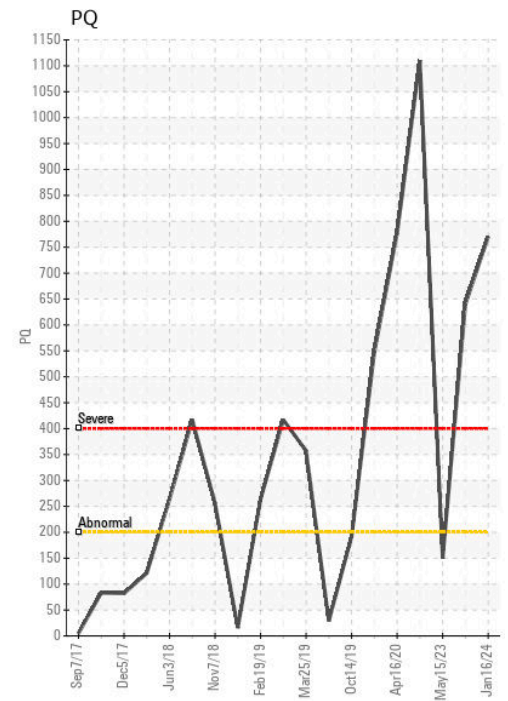
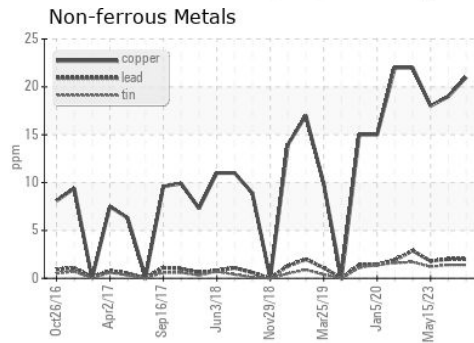
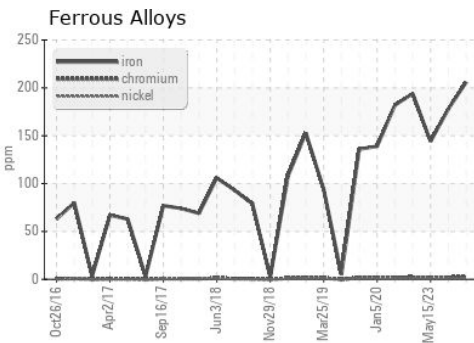
method	limit/base	current	history1	history2
Grease Color	Visual* Gold	Brown	Brown	Gold
Texture	In-house* Buttery	Stringy	Stringy	Stringy
NLGI Consistency	NLGI Scale SKF Method* 1	0-1	0	0

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
Lab Number : 02609593
Unique Number : 5710679
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.