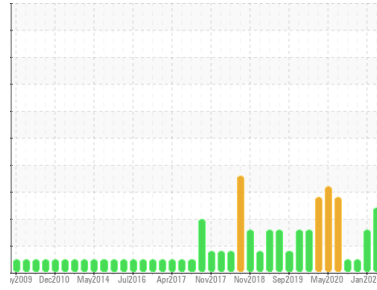


GREASE ANALYSIS

Sample Rating Trend



Area
Turret
Machine Id
Turret Swivel #1 - 16 (S/N Sample Tag: NC-21604)
Component
Grease
Fluid
PETRO CANADA GREASE OG-1 (--- GAL)

DIAGNOSIS

- Recommendation**
We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.
- Wear**
All component wear rates are normal.
- Grease Condition**
Grease consistency has changed by 2 NLGI grades from NLGI 1 to 3. The grease is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.
- Contaminants**
There is a moderate concentration of dirt present in the grease.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC	PC	PC
Sample Date	Client Info	18 Mar 2024	23 Jan 2024	04 Jan 2024
Machine Age	days	0	0	0
Grease Age	days	0	0	0
Grease Serviced	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	SEVERE	NORMAL

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	130	0	0
Iron	ppm ASTM D5185(m) >250	195	215	194
Chromium	ppm ASTM D5185(m) >10	2	2	2
Nickel	ppm ASTM D5185(m) >5	2	2	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	0	0	0
Copper	ppm ASTM D5185(m) >75	<1	<1	<1
Tin	ppm ASTM D5185(m) >5	0	0	0
Silver	ppm ASTM D5185(m) >5	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	179	147	144
Magnesium	ppm ASTM D5185(m)	8	7	7
Manganese	ppm ASTM D5185(m)	<1	1	1
Molybdenum	ppm ASTM D5185(m)	0	0	0
Phosphorus	ppm ASTM D5185(m)	7	6	5
Zinc	ppm ASTM D5185(m)	17	14	13
Antimony	ppm ASTM D5185(m)	0	0	<1

THICKENER/SOAP

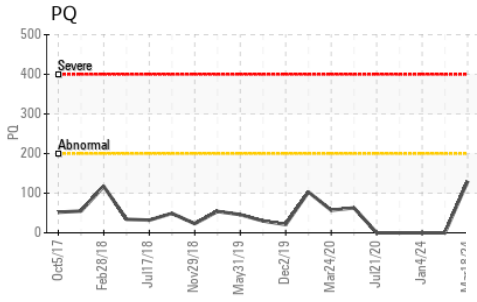
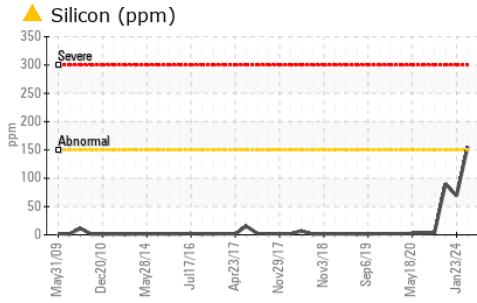
method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185(m)	3	2	2
Barium	ppm ASTM D5185(m)	<1	0	0
Calcium	ppm ASTM D5185(m)	4269	4001	3867
Sodium	ppm ASTM D5185(m)	17	16	17
Lithium	ppm ASTM D5185(m)	21	26	24
Sulfur	ppm ASTM D5185(m)	821	945	839

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >150	▲ 155	69	90
Potassium	ppm ASTM D5185(m)	4	3	4

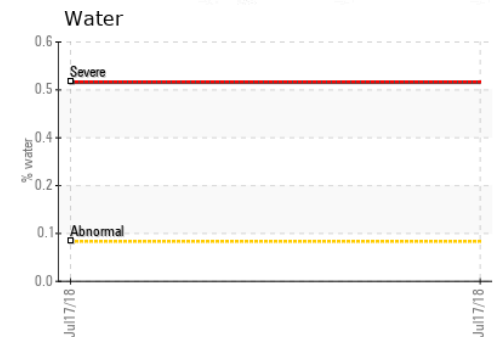
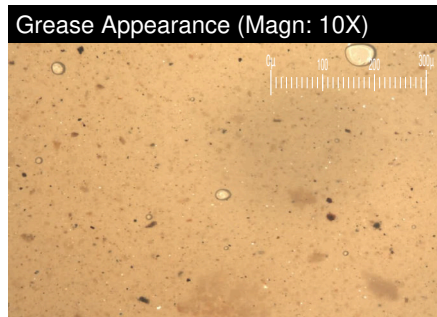
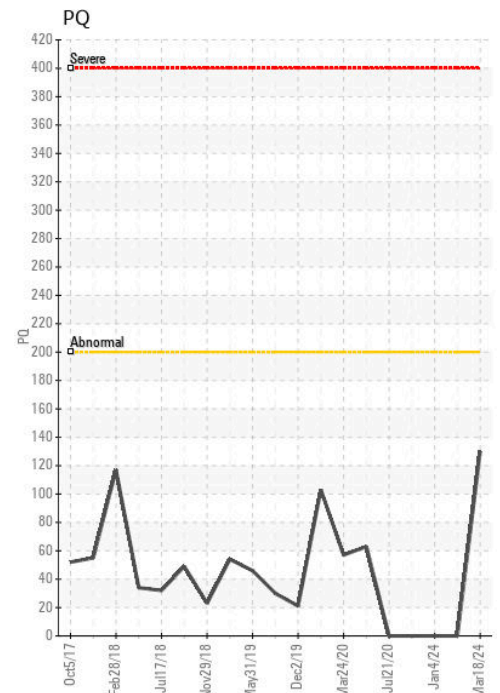
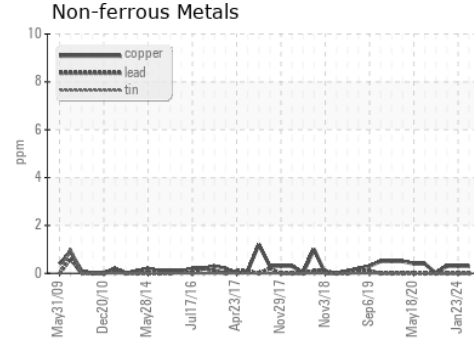
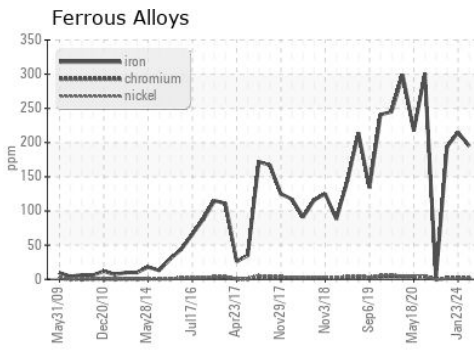
GREASE CONDITION

method	limit/base	current	history1	history2
Grease Color	Visual* Tan	Brown	Brown	Brown
Texture	In-house* Buttery	Buttery	Buttery	Buttery
NLGI Consistency	NLGI Scale SKF Method* 1	▲ 3	▲ 4	2



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

GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC **Received** : 02 Apr 2024
Lab Number : **02626284** **Tested** : 04 Apr 2024
Unique Number : 5759416 **Diagnosed** : 04 Apr 2024 - Bill Quesnel
Test Package : GRS 1 (Additional Tests: BottomAnalysis)

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.

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