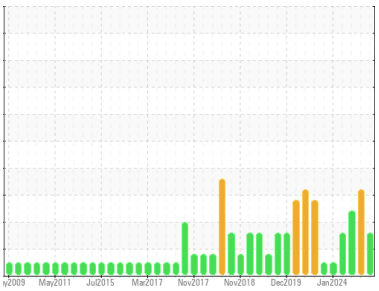
GREASE ANALYSIS

Sample Rating Trend



DIRT

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
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**	PC0078284	PC
Sample Date		Client Info		**16 Apr 2024**	01 Apr 2024	18 Mar 2024
Machine Age	days	Client Info		**0**	0	0
Grease Age	days	Client Info		**0**	0	0
Grease Serviced		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	SEVERE	ABNORMAL

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	**0**	0	130
Iron	ppm	ASTM D5185(m)	>250	**163**	175	195
Chromium	ppm	ASTM D5185(m)	>10	**1**	<1	2
Nickel	ppm	ASTM D5185(m)	>5	**<1**	1	2
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)		**170**	177	179
Magnesium	ppm	ASTM D5185(m)		**8**	7	8
Manganese	ppm	ASTM D5185(m)		**1**	1	<1
Molybdenum	ppm	ASTM D5185(m)		**0**	0	0
Phosphorus	ppm	ASTM D5185(m)		**5**	5	7
Zinc	ppm	ASTM D5185(m)		**19**	18	17
Antimony	ppm	ASTM D5185(m)		**0**	0	0

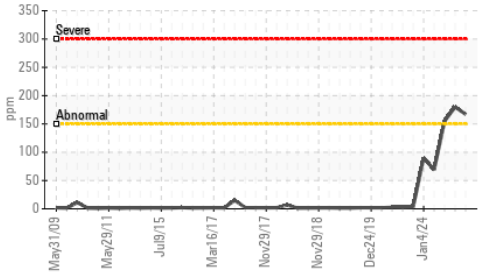
THICKENER/SOAP		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)		**2**	2	3
Barium	ppm	ASTM D5185(m)		**<1**	<1	<1
Calcium	ppm	ASTM D5185(m)		**4111**	4394	4269
Sodium	ppm	ASTM D5185(m)		**14**	15	17
Lithium	ppm	ASTM D5185(m)		**19**	21	21
Sulfur	ppm	ASTM D5185(m)		**807**	823	821

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>150	▲ **167**	▲ 180	▲ 155
Potassium	ppm	ASTM D5185(m)		**2**	2	4

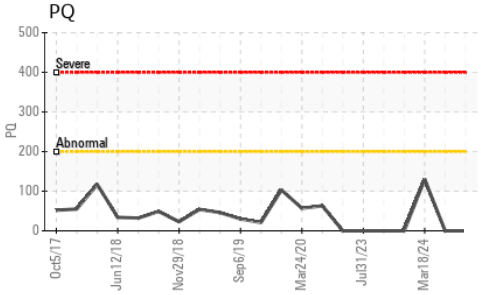
GREASE CONDITION		method	limit/base	current	history1	history2
Grease Color		Visual*	Tan	**Brown**	Brown	Brown
Texture		In-house*	Buttery	**Buttery**	Buttery	Buttery
NLGI Consistency	NLGI Scale	SKF Method*	1	**2**	▲ 4	▲ 3

GREASE ANALYSIS

Silicon (ppm)

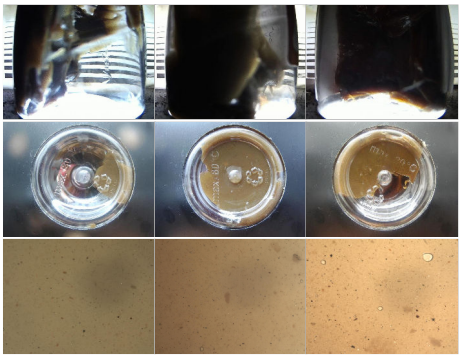


PQ



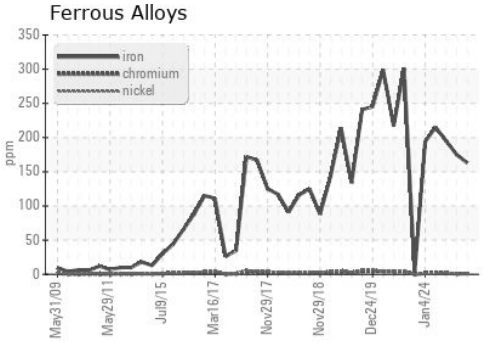
SAMPLE IMAGES

	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter					

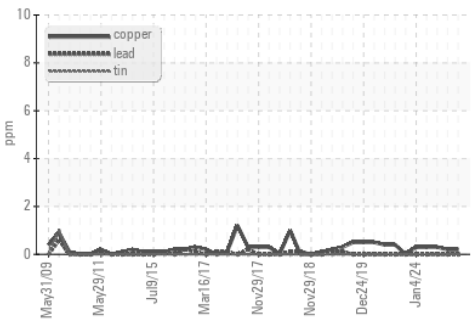


GRAPHS

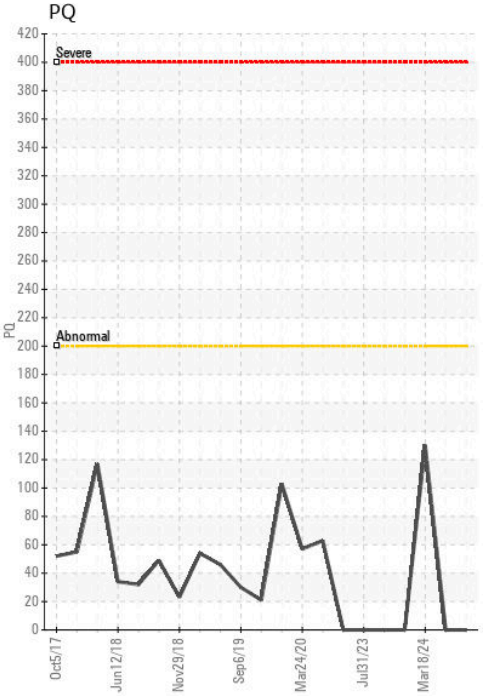
Ferrous Alloys



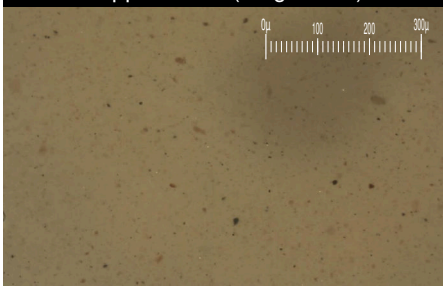
Non-ferrous Metals



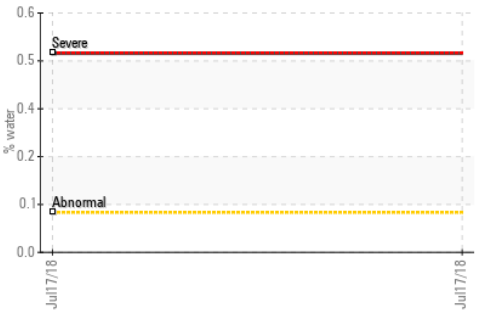
PQ



Grease Appearance (Magn: 10X)



Water



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC
Lab Number : 02634831
Unique Number : 5775984
Test Package : GRS 1 (Additional Tests: BottomAnalysis)

Received : 10 May 2024
Tested : 14 May 2024
Diagnosed : 15 May 2024 - Bill Quesnel

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.

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