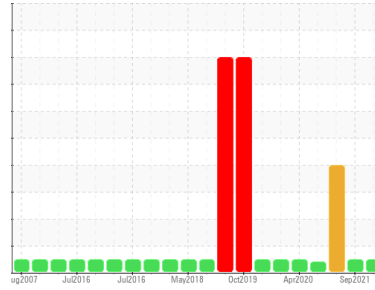


GREASE ANALYSIS

Sample Rating Trend



NORMAL



Area
Cranes
Machine Id
Crane - Aft Slew Brg Grease (S/N Sample tag: MA-04001)
Component
Aft Grease
Fluid
PETRO CANADA PRECISION XL EP2 (--- LTR)

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

There is no indication of any contamination in the grease.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0039814	PC	PC361529
Sample Date	Client Info		16 Aug 2023	20 Sep 2021	16 Sep 2020
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			NORMAL	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*	>200	140	300	▲ 1070
Iron	ppm	ASTM D5185(m)	33	41	95
Chromium	ppm	ASTM D5185(m)	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	<1	1	1
Cadmium	ppm	ASTM D5185(m)	0	0	0
Titanium	ppm	ASTM D5185(m)	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)	0	0	0
Lead	ppm	ASTM D5185(m)	3	4	3
Copper	ppm	ASTM D5185(m)	<1	<1	1
Tin	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	4	2
Magnesium	ppm	ASTM D5185(m)	6	4	▲ 29
Manganese	ppm	ASTM D5185(m)	<1	<1	2
Molybdenum	ppm	ASTM D5185(m)	123	30	▲ 2
Phosphorus	ppm	ASTM D5185(m)	19	46	49
Zinc	ppm	ASTM D5185(m)	39	35	▲ 106
Antimony	ppm	ASTM D5185(m)	13	18	▲ 55

THICKENER/SOAP

	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<1	12	2
Barium	ppm	ASTM D5185(m)	1	4	5
Calcium	ppm	ASTM D5185(m)	104	148	137
Sodium	ppm	ASTM D5185(m)	37	23	124
Lithium	ppm	ASTM D5185(m)	113	153	228
Sulfur	ppm	ASTM D5185(m)	367	677	531

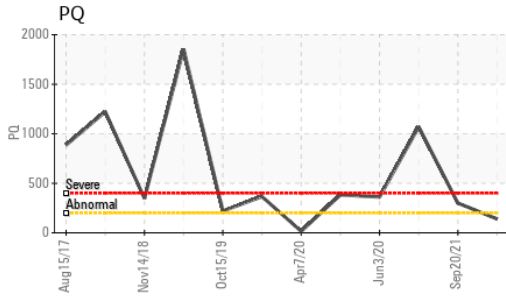
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>150	33	4
Potassium	ppm	ASTM D5185(m)	2	2	6

GREASE CONDITION

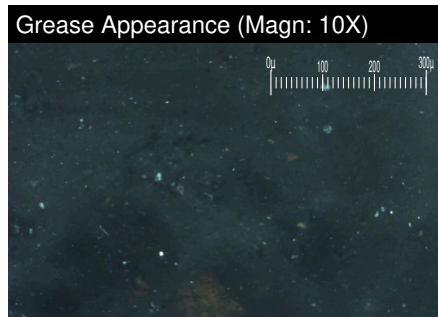
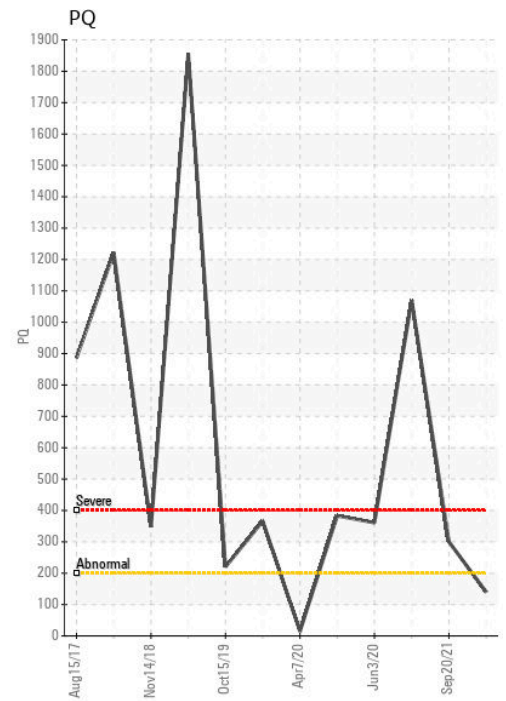
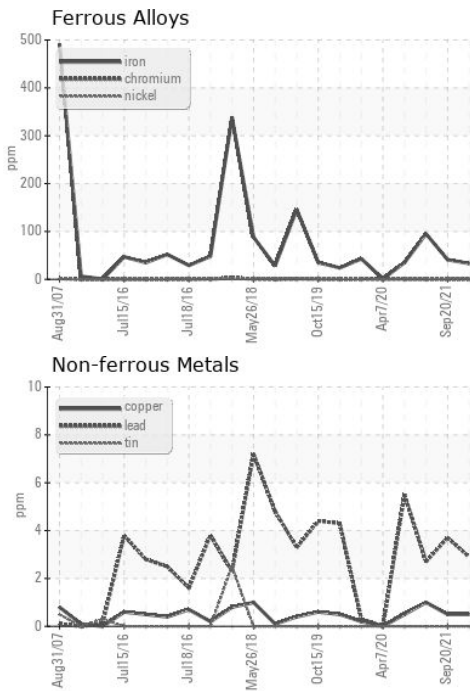
	method	limit/base	current	history1	history2
Grease Color	Visual*	Brown	Brown	Brown	Brown
Texture	In-house*	Stringy	Brittle	Long fiber	Short fiber
NLGI Consistency	NLGI Scale SKF Method*	2	2-3	1-2	2-3

GREASE ANALYSIS



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. : PC0039814 **Received** : 17 Aug 2023
Lab Number : **02576629** **Diagnosed** : 21 Aug 2023
Unique Number : 5629689 **Diagnostician** : 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