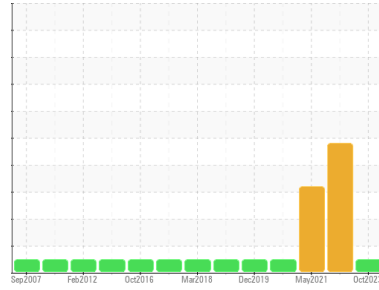


GREASE ANALYSIS

Sample Rating Trend



NORMAL



Area
Cranes [450207986]
Machine Id
Crane - Mid Ship Slew Brg Grease (S/N Sample Tag MA-04002)
Component
Forward 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	PC	PC0061552	PC0030634
Sample Date	Client Info	04 Oct 2023	12 Aug 2023	20 May 2021
Machine Age	hrs	Client Info	0	0
Grease Age	hrs	Client Info	0	0
Grease Serviced	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2		
PQ	ASTM D8184*	>200	6310	700	▲ 8452	
Iron	ppm	ASTM D5185(m)	>250	281	401	95
Chromium	ppm	ASTM D5185(m)	>10	<1	4	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Cadmium	ppm	ASTM D5185(m)		0	0	0
Titanium	ppm	ASTM D5185(m)		0	2	3
Vanadium	ppm	ASTM D5185(m)		0	<1	0
Lead	ppm	ASTM D5185(m)	>25	<1	3	<1
Copper	ppm	ASTM D5185(m)	>75	1	1	1
Tin	ppm	ASTM D5185(m)	>5	0	▲ 4	0
Silver	ppm	ASTM D5185(m)	>5	<1	0	<1

ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185(m)		2	2	5
Magnesium	ppm	ASTM D5185(m)		6	▲ 28	<1
Manganese	ppm	ASTM D5185(m)		4	4	<1
Molybdenum	ppm	ASTM D5185(m)		34	▲ 230	2
Phosphorus	ppm	ASTM D5185(m)		68	35	26
Zinc	ppm	ASTM D5185(m)		83	50	▲ 2
Antimony	ppm	ASTM D5185(m)		13	▲ 16	2

THICKENER/SOAP

method	limit/base	current	history1	history2		
Aluminum	ppm	ASTM D5185(m)		1	▲ 162	1
Barium	ppm	ASTM D5185(m)		2	2	<1
Calcium	ppm	ASTM D5185(m)		125	▲ 560	▲ 7
Sodium	ppm	ASTM D5185(m)		57	19	11
Lithium	ppm	ASTM D5185(m)		187	104	49
Sulfur	ppm	ASTM D5185(m)		655	724	▲ 890

CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>150	3	▲ 462	4
Potassium	ppm	ASTM D5185(m)		4	4	3

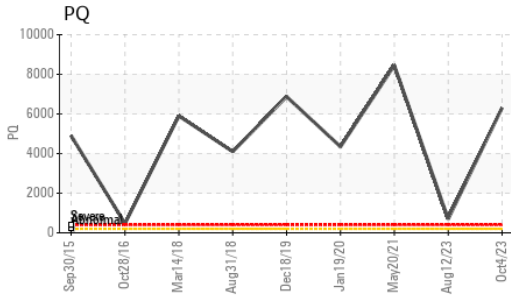
GREASE CONDITION

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

Particle Filter (Magn: 10 x)

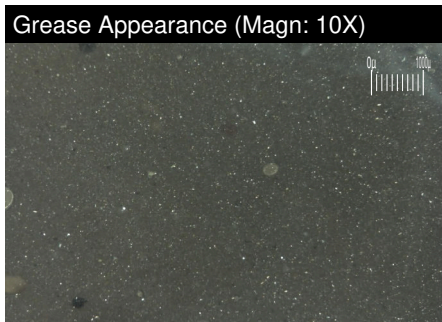
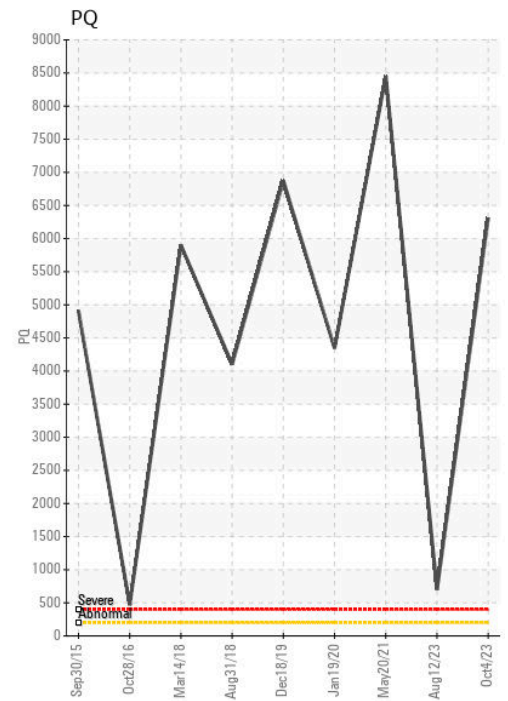
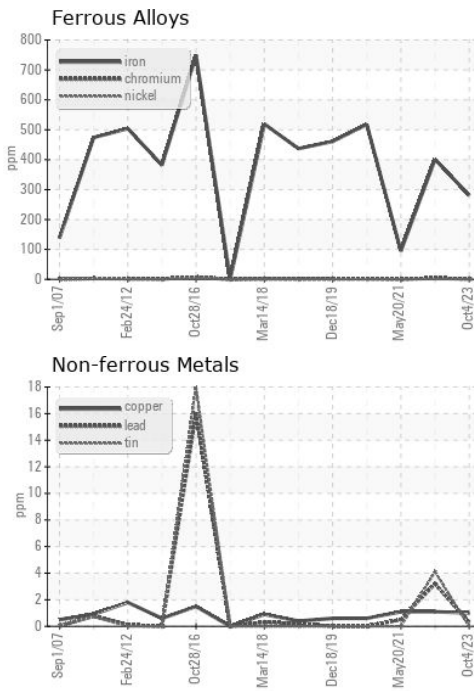


GREASE ANALYSIS



	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 : 02590170
Unique Number : 5659236
Test Package : GRS 1 (Additional Tests: BottomAnalysis, PrtCount, PrtFilter)

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.