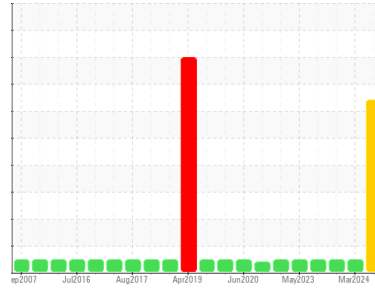


GREASE ANALYSIS

Sample Rating Trend



DIRT



Area

CRANES

Machine Id

Crane - Fwd Slew Brg Grease (S/N Sample Tag: MA-04001)

Component

Forward Grease

Fluid

PETRO CANADA PRECISION XL EP2 (--- LTR)

DIAGNOSIS

Recommendation

We recommend that you re-grease the component if this has not already been done. Confirm the source of the grease being utilized for re-greasing. We recommend an early resample to monitor this condition.

Wear

Tin ppm levels are abnormal. Aluminum, chromium and nickel ppm levels are noted.

Grease Condition

Additive levels indicate the addition of a different brand, or type of grease. The grease is no longer serviceable as a result of the abnormal and/or severe wear.

Contaminants

Elemental levels of silicon (Si) and aluminum (Al) indicate this is an aluminum-based grease.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC	PC	PC
Sample Date	Client Info	20 Mar 2024	17 Mar 2024	12 Feb 2024
Machine Age	hrs	0	0	0
Grease Age	hrs	0	0	0
Grease Serviced	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	NORMAL	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	4750	0	881	
Iron	ppm	ASTM D5185(m)	>250	520	<1	42
Chromium	ppm	ASTM D5185(m)	>10	5	0	<1
Nickel	ppm	ASTM D5185(m)	>5	2	<1	<1
Cadmium	ppm	ASTM D5185(m)		0	0	0
Titanium	ppm	ASTM D5185(m)		3	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Lead	ppm	ASTM D5185(m)	>25	7	0	2
Copper	ppm	ASTM D5185(m)	>75	2	0	<1
Tin	ppm	ASTM D5185(m)	>5	10	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0

ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185(m)		3	<1	<1
Magnesium	ppm	ASTM D5185(m)		47	<1	5
Manganese	ppm	ASTM D5185(m)		3	0	0
Molybdenum	ppm	ASTM D5185(m)		9	0	203
Phosphorus	ppm	ASTM D5185(m)		15	18	31
Zinc	ppm	ASTM D5185(m)		22	1	33
Antimony	ppm	ASTM D5185(m)		3	0	18

THICKENER/SOAP

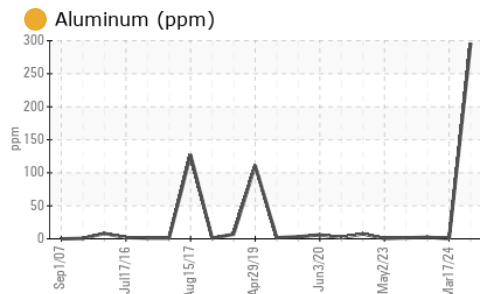
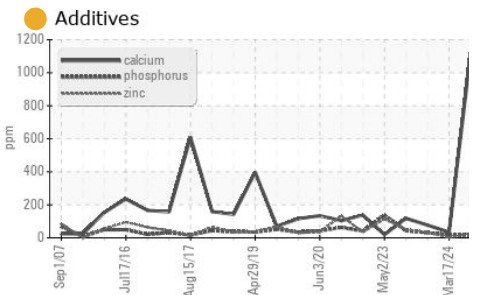
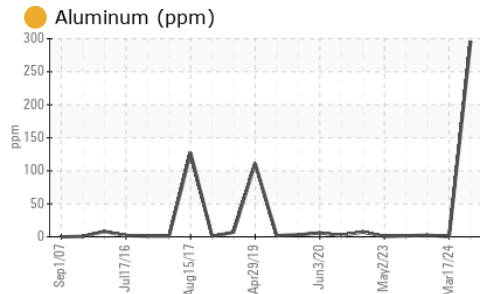
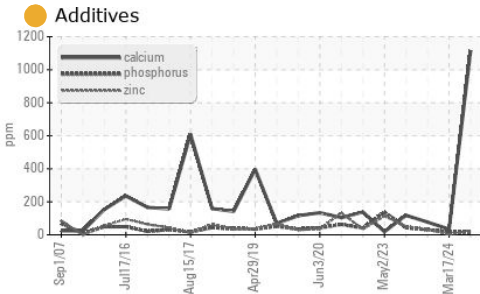
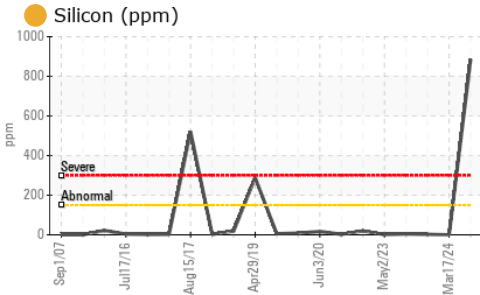
method	limit/base	current	history1	history2		
Aluminum	ppm	ASTM D5185(m)		296	<1	2
Barium	ppm	ASTM D5185(m)		4	0	1
Calcium	ppm	ASTM D5185(m)		1116	34	77
Sodium	ppm	ASTM D5185(m)		36	1	33
Lithium	ppm	ASTM D5185(m)		13	106	197
Sulfur	ppm	ASTM D5185(m)		641	416	663

CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>150	885	0	2
Potassium	ppm	ASTM D5185(m)		9	<1	3

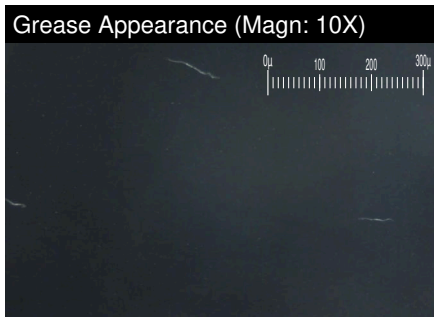
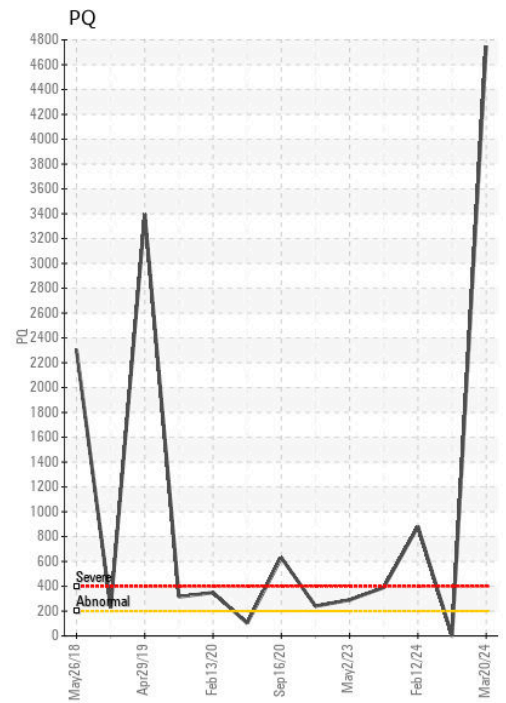
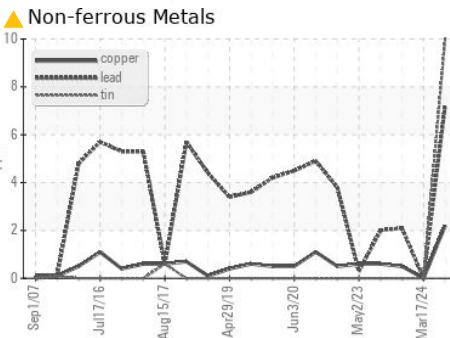
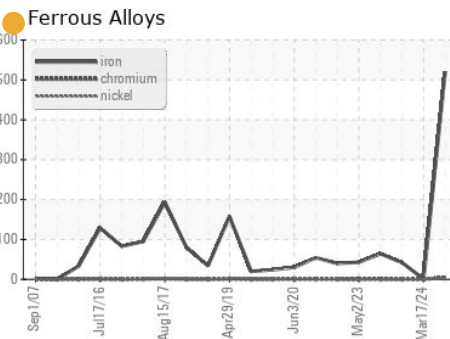
GREASE CONDITION

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



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 : 02626293
Unique Number : 5759425
Test Package : GRS 1 (Additional Tests: BottomAnalysis)

Received : 02 Apr 2024
Tested : 04 Apr 2024
Diagnosed : 04 Apr 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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