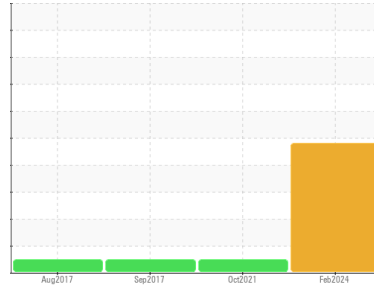


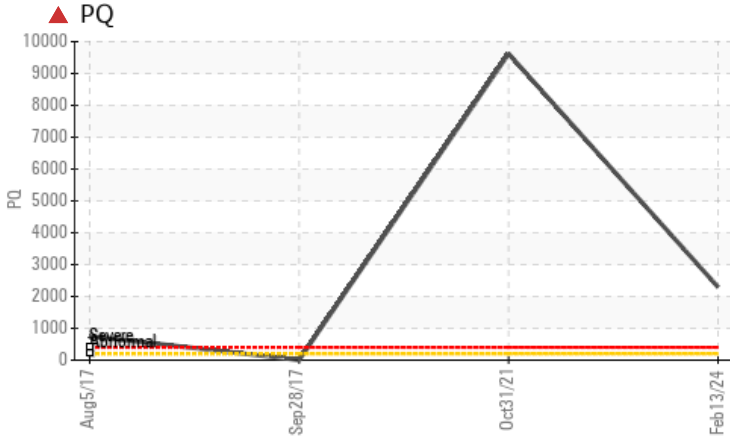
PROBLEM SUMMARY

Area
CRANES
Machine Id
Crane - Mid - Bearing (S/N MA-04002)
Component
Forward Grease
Fluid
PETRO CANADA PRECISION XL EP2 (--- LTR)

Sample Rating Trend



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend that you re-grease the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	NORMAL	NORMAL
PQ	ASTM D8184*	>200	▲ 2296	9620	7
NLGI Consistency	NLGI Scale	SKF Method*	▲ 0-1	2	2
PrtFilter					

Customer Id: TERHAM
Sample No.: PC0052010
Lab Number: 02621649
Test Package: GRS 1



To manage this report scan the QR code

To discuss the diagnosis or test data:
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Bill.Quesnel@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

31 Oct 2021 Diag: Bill Quesnel

NORMAL



Resample at the next service interval to monitor. Please specify the brand, type, and NLGI grade of the grease on your next sample. All component wear rates are normal. There is no indication of any contamination in the grease. The condition of the grease is acceptable for the time in service.

view report



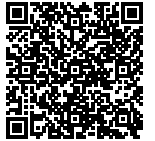
28 Sep 2017 Diag: Bill Quesnel

NORMAL



Resample at the next service interval to monitor. Please specify the brand, type, and NLGI grade of the grease on your next sample. All component wear rates are normal. There is no indication of any contamination in the grease. The condition of the grease is acceptable for the time in service.

view report



05 Aug 2017 Diag: Kevin Marson

NORMAL



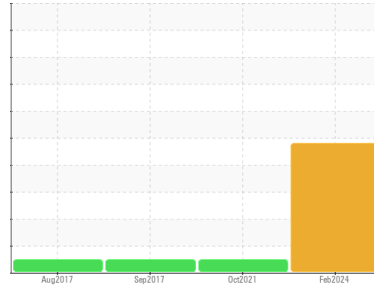
This is a baseline read-out on the submitted sample. {not applicable} {not applicable} {not applicable}

view report



GREASE ANALYSIS

Sample Rating Trend



Area
CRANES
Machine Id
Crane - Mid - Bearing (S/N MA-04002)
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. We recommend an early resample to monitor this condition.

Wear
PQ levels are severe. The very high ferrous density (PQ) index indicates that severe wear is occurring.

Grease Condition
Grease consistency has changed by 1-1/2 NLGI grades from NLGI 2 to 0-1. The grease is no longer serviceable as a result of the abnormal and/or severe wear.

Contaminants
There is no indication of any contamination in the grease.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PC0052010	PC0040614	PC408561
Sample Date	Client Info		13 Feb 2024	31 Oct 2021	28 Sep 2017
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			SEVERE	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	▲ 2296	9620	7	
Iron	ppm	ASTM D5185(m)	>250	173	520	<1
Chromium	ppm	ASTM D5185(m)	>10	<1	2	0
Nickel	ppm	ASTM D5185(m)	>5	<1	0	0
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	<1	0	0
Copper	ppm	ASTM D5185(m)	>75	1	<1	0
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)		<1	2	0
Magnesium	ppm	ASTM D5185(m)		8	2	0
Manganese	ppm	ASTM D5185(m)		3	7	0
Molybdenum	ppm	ASTM D5185(m)		18	130	0
Phosphorus	ppm	ASTM D5185(m)		86	60	7
Zinc	ppm	ASTM D5185(m)		83	61	<1
Antimony	ppm	ASTM D5185(m)		2	16	0

THICKENER/SOAP

	method	limit/base	current	history1	history2	
Aluminum	ppm	ASTM D5185(m)		1	2	0
Barium	ppm	ASTM D5185(m)		<1	1	<1
Calcium	ppm	ASTM D5185(m)		85	104	28
Sodium	ppm	ASTM D5185(m)		31	15	3
Lithium	ppm	ASTM D5185(m)		120	251	92
Sulfur	ppm	ASTM D5185(m)		618	783	500

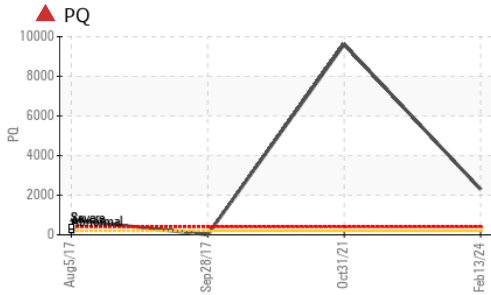
CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>150	2	4	<1
Potassium	ppm	ASTM D5185(m)		3	1	0

GREASE CONDITION

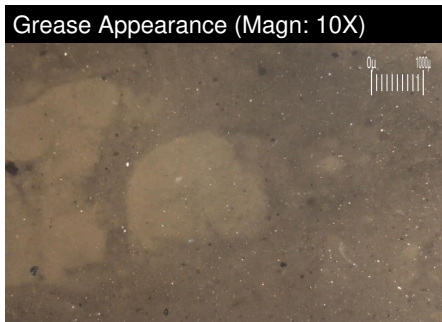
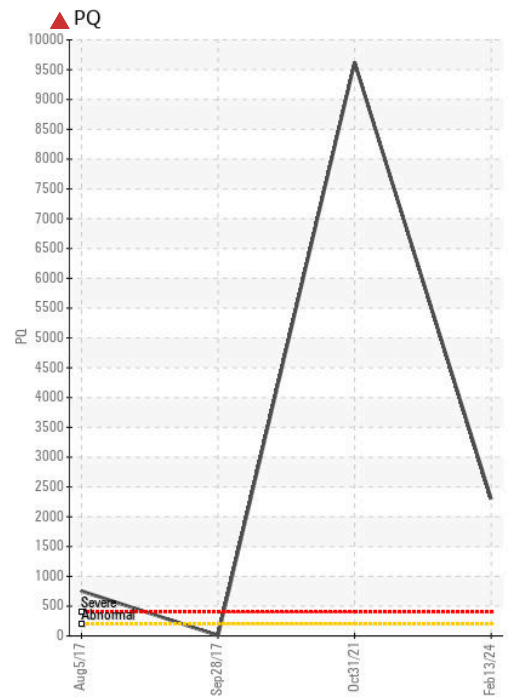
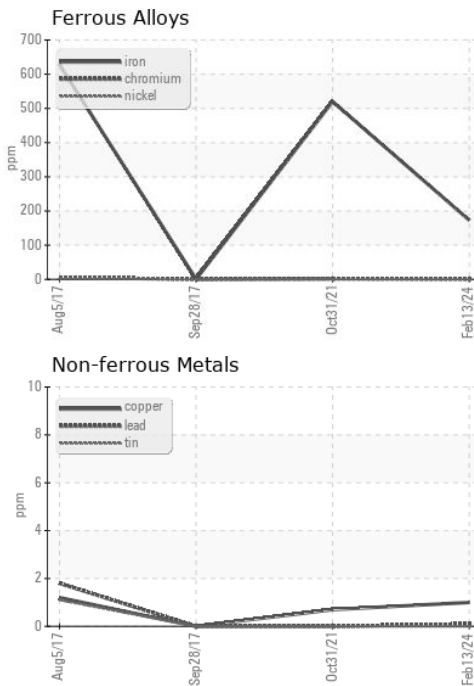
	method	limit/base	current	history1	history2
Grease Color	Visual*	Brown	Black	Black	Gold
Texture	In-house*	Stringy	Short fiber	Long fiber	Short Fiber
NLGI Consistency	NLGI Scale	SKF Method* 2	▲ 0-1	2	2

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. : PC0052010 **Received** : 12 Mar 2024
Lab Number : 02621649 **Tested** : 13 Mar 2024
Unique Number : 5746768 **Diagnosed** : 14 Mar 2024 - Bill Quesnel
Test Package : GRS 1 (Additional Tests: BottomAnalysis)

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.