

GREASE ANALYSIS

CRANES Machine Id Slew Bearing - Aft Crane Counter weight (S/N Sample Tag MA-04001) Component Grease

{not provided} (--- LTR)

DIAGNOSIS

Fluic

Recommendation

We advise that you check for visible metal particles in the grease. We advise that you check all areas where dirt can enter the system. We recommend that you re-grease the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type and NLGI grade of the grease on your next sample.

🔺 Wear

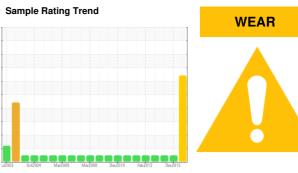
PQ levels are abnormal. Iron ppm levels are marginal. Moderate concentration of visible metal present. The high ferrous density (PQ) index indicates that abnormal wear is occurring. Abnormal wear is indicated.

Grease Condition

The grease is no longer serviceable as a result of the abnormal and/or severe wear.

Contaminants

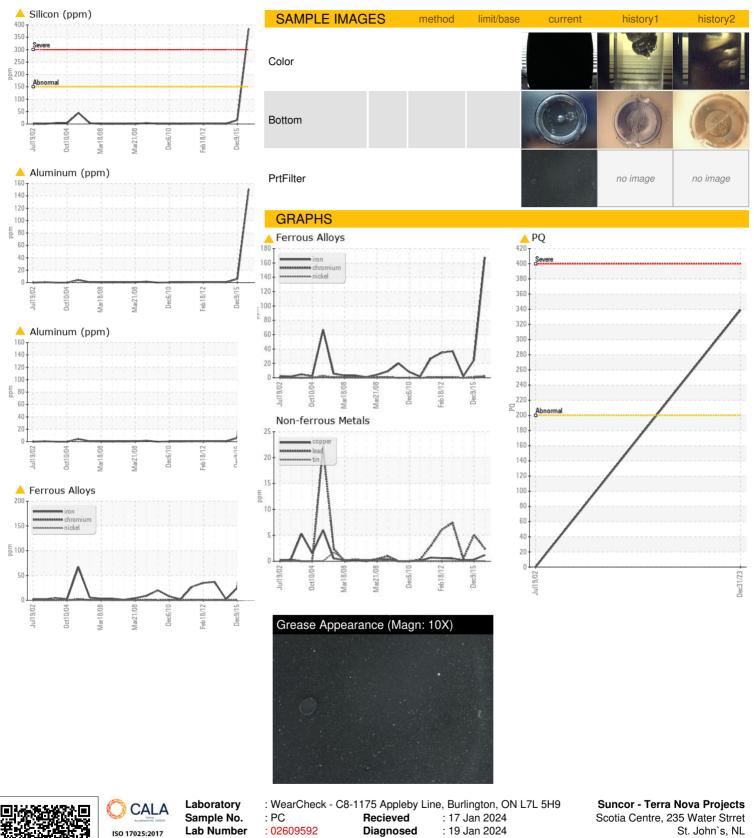
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.



		ul2002 0	:t2004 Mar2008 M	ar2008 Dec2010 Feb2012	Dec2015	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC	PC351015	PC
Sample Date		Client Info		31 Dec 2023	09 Dec 2015	06 Nov 2013
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				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*	>200	A 339		
Iron	ppm	ASTM D5185(m)	>250	<u> </u>	25	2
Chromium	ppm	ASTM D5185(m)	>10	1	<1	0
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	2	5	<1
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)		3	3	<1
Magnesium	ppm	ASTM D5185(m)		24	2	0
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)		22	3	<1
Phosphorus	ppm	ASTM D5185(m)		25	43	10
Zinc	ppm	ASTM D5185(m)		26	40	1
Antimony	ppm	ASTM D5185(m)		10	18	0
THICKENER/S	OAP	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)		1 51	6	<1
Barium	ppm	ASTM D5185(m)		4	4	<1
Calcium	ppm	ASTM D5185(m)		452	145	29
Sodium	ppm	ASTM D5185(m)		23	13	11
Lithium	ppm	ASTM D5185(m)		82	160	249
Sulfur	ppm	ASTM D5185(m)		659	658	422
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>150	A 385	16	<1
Potassium	ppm	ASTM D5185(m)		3	<1	0
GREASE CON	DITION	method	limit/base	current	history1	history2
Grease Color		Visual*		Black		
Texture		In-house*		Stringy		
NLGI Consistency	NLGI Scale	SKF Method*		1		



GREASE ANALYSIS



 Accredited Laboratory
 Unique Number
 : 5710678
 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.
 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

Contact/Location: Josh Hynes - TERHAM