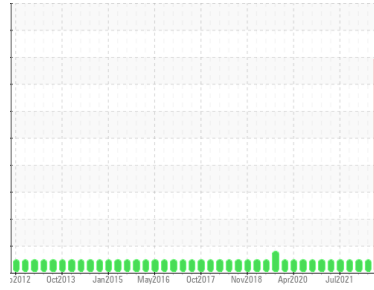




PROBLEM SUMMARY

Area
STARBOARD CRANE
 Machine Id
58-W-7645 STBD CRANE SLEW BEARING GREASE (S/N Maint Plan 28275)
 Component
Forward Grease
 Fluid
ESSO UNIREX EP-2 GREASE (--- GAL)

Sample Rating Trend



VISUAL METAL



COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

We advise that you check for visible metal particles in the grease. Wear particles and/or ppm levels are abnormally high indicating the need to review OEM limits with attention to components that may generate this type of wear. Include all test results and maintenance activities that have been performed since the abnormal condition was first detected in this review. We recommend that you re-grease the component if this has not already been done. An inspection for the source(s) of wear may be warranted at this time. We recommend an early resample to monitor this condition. Re-sampling is suggested to confirm test results prior to significant maintenance activities being performed. Please indicate that this is a resample on your Sample Information Form (SIF).

PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	NORMAL	NORMAL
PrtFilter			

Customer Id: SPESTJ
Sample No.: WC0711731
Lab Number: 02580545
Test Package: GRS 1



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Bill Quesnel CLS,OMA II,MLA-III,LLA-I +1
 (289)291-4641 x4641
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
Inspect Wear Source	---	---	?	An inspection for the source(s) of wear may be warranted at this time.
Monitor	---	---	?	Wear particles and/or ppm levels are abnormally high indicating the need to review OEM limits with attention to components that may generate this type of wear. Include all test results and maintenance activities that have been performed since the abnormal condition was first detected in this review.
Resample	---	---	?	We recommend an early resample to monitor this condition. Re-sampling is suggested to confirm test results prior to significant maintenance activities being performed. Please indicate that this is a resample on your Sample Information Form (SIF).
Alert	---	---	?	Wear particles and/or ppm levels are abnormally high indicating the need to review OEM limits with attention to components that may generate this type of wear. Include all test results and maintenance activities that have been performed since the abnormal condition was first detected in this review.
Check For Visual Metal	---	---	?	We advise that you check for visible metal particles in the grease.

HISTORICAL DIAGNOSIS

15 May 2022 Diag: Bill Quesnel

NORMAL



Resample at the next service interval to monitor. 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](#)



18 Jan 2022 Diag: Bill Quesnel

NORMAL



Resample at the next service interval to monitor. 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](#)



16 Nov 2021 Diag: Bill Quesnel

NORMAL



Resample at the next service interval to monitor. 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](#)



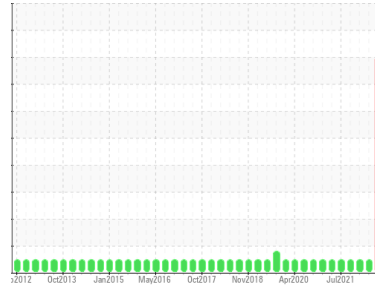


GREASE ANALYSIS

Sample Rating Trend

VISUAL METAL

Area
STARBOARD CRANE
 Machine Id
58-W-7645 STBD CRANE SLEW BEARING GREASE (S/N Maint Plan 28275)
 Component
Forward Grease
 Fluid
ESSO UNIREX EP-2 GREASE (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check for visible metal particles in the grease. Wear particles and/or ppm levels are abnormally high indicating the need to review OEM limits with attention to components that may generate this type of wear. Include all test results and maintenance activities that have been performed since the abnormal condition was first detected in this review. We recommend that you re-grease the component if this has not already been done. An inspection for the source(s) of wear may be warranted at this time. We recommend an early resample to monitor this condition. Re-sampling is suggested to confirm test results prior to significant maintenance activities being performed. Please indicate that this is a resample on your Sample Information Form (SIF).

Wear

High concentration of visible metal present. Abnormal wear is indicated.

Grease Condition

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		WC0711731	WC0590092	WC0590093
Sample Date	Client Info		26 Jul 2023	15 May 2022	18 Jan 2022
Machine Age	days	Client Info	0	0	0
Grease Age	days	Client Info	0	0	0
Grease Serviced	Client Info		N/A	N/A	N/A
Sample Status			SEVERE	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*	>200	1790	950	6080
Iron	ppm	ASTM D5185(m)	>250	155	165
Chromium	ppm	ASTM D5185(m)	>10	2	2
Nickel	ppm	ASTM D5185(m)	>5	3	3
Cadmium	ppm	ASTM D5185(m)		0	<1
Titanium	ppm	ASTM D5185(m)		<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0
Lead	ppm	ASTM D5185(m)	>25	1	2
Copper	ppm	ASTM D5185(m)	>75	<1	1
Tin	ppm	ASTM D5185(m)	>5	0	0
Silver	ppm	ASTM D5185(m)	>5	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	2	4
Magnesium	ppm	ASTM D5185(m)	0	1	1
Manganese	ppm	ASTM D5185(m)	0	1	1
Molybdenum	ppm	ASTM D5185(m)	5	21	28
Phosphorus	ppm	ASTM D5185(m)	75	100	103
Zinc	ppm	ASTM D5185(m)	75	164	165
Antimony	ppm	ASTM D5185(m)	2	1	2

THICKENER/SOAP

	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	0	<1	1
Barium	ppm	ASTM D5185(m)	100	81	101
Calcium	ppm	ASTM D5185(m)	200	53	74
Sodium	ppm	ASTM D5185(m)	10	7	5
Lithium	ppm	ASTM D5185(m)		273	285
Sulfur	ppm	ASTM D5185(m)	1100	629	756

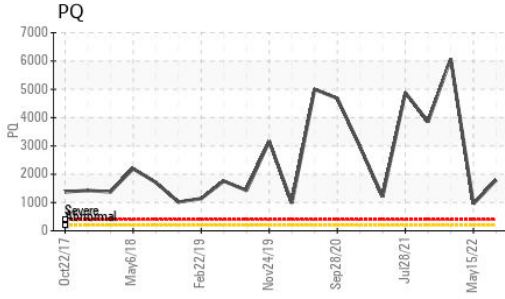
CONTAMINANTS

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

GREASE CONDITION

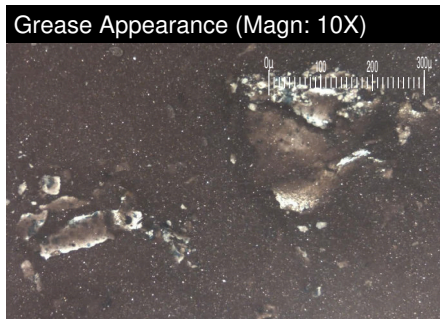
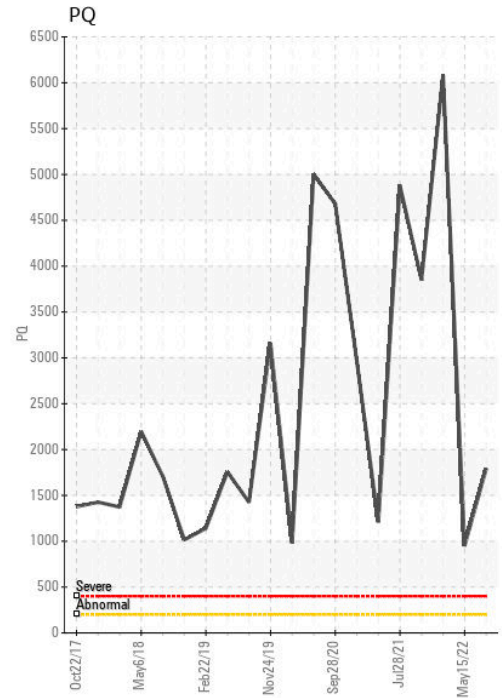
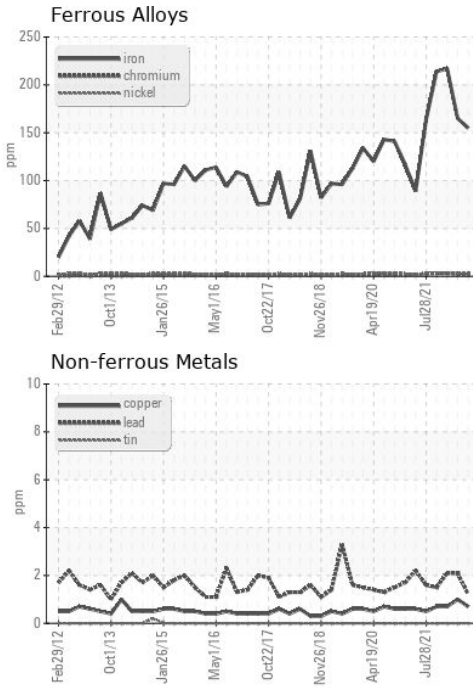
	method	limit/base	current	history1	history2
Grease Color	Visual*	Green	Burgundy	Burgundy	Brown
Texture	In-house*		Short fiber	Short fiber	Short fiber
NLGI Consistency	NLGI Scale SKF Method*	2	2	2	2

GREASE ANALYSIS



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
PrtFilter					

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 HUSKY SEA ROSE /AKER SOLUTIONS
Sample No. : WC0711731 **Received** : 05 Sep 2023 PO BOX 20
Lab Number : 02580545 **Diagnosed** : 07 Sep 2023 ST. JOHN'S, NL
Unique Number : 5633605 **Diagnostician** : Bill Quesnel CA A1C 6C9
Test Package : GRS 1 (Additional Tests: BottomAnalysis) Contact: Maintenance Supervisor

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.

maintsuper.searose@huskyenergy.ca
 T: x:
 F: x: