

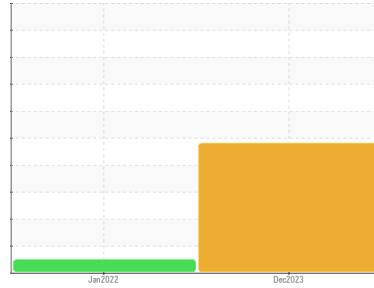


GREASE ANALYSIS

Sample Rating Trend

WEAR

Area
SLAB CASTER
 Machine Id
STL201 TURRET BRG SOUTH SIDE
 Component
Grease
 Fluid
SHELL GADUS S5 V460 1.5 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check for visible metal particles in the grease. 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 abnormal. Iron ppm levels are abnormal. Moderate concentration of visible metal present. The high ferrous density (PQ) index indicates that abnormal wear is occurring. Abnormal wear is indicated.

Grease Condition

Grease consistency has changed by 1-1/2 NLGI grades from NLGI 1.5 to 3. 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	WC0885748	WC	---
Sample Date	Client Info	06 Dec 2023	27 Jan 2022	---
Machine Age	hrs	0	0	---
Grease Age	hrs	0	0	---
Grease Serviced	Client Info	N/A	N/A	---
Sample Status		ABNORMAL	NORMAL	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	NEG	NEG	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	>200	▲ 17680	---
Iron	ppm	ASTM D5185(m)	>250	▲ 182
Chromium	ppm	ASTM D5185(m)	>10	<1
Nickel	ppm	ASTM D5185(m)	>5	<1
Cadmium	ppm	ASTM D5185(m)	0	0
Titanium	ppm	ASTM D5185(m)	0	0
Vanadium	ppm	ASTM D5185(m)	0	<1
Lead	ppm	ASTM D5185(m)	>25	<1
Copper	ppm	ASTM D5185(m)	>75	2
Tin	ppm	ASTM D5185(m)	>5	0
Silver	ppm	ASTM D5185(m)	>5	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	220	141
Magnesium	ppm	ASTM D5185(m)	0	3
Manganese	ppm	ASTM D5185(m)	0	2
Molybdenum	ppm	ASTM D5185(m)	0	0
Phosphorus	ppm	ASTM D5185(m)	150	109
Zinc	ppm	ASTM D5185(m)	100	109
Antimony	ppm	ASTM D5185(m)	2	<1

THICKENER/SOAP

method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	0	1
Barium	ppm	ASTM D5185(m)	0	0
Calcium	ppm	ASTM D5185(m)	100	104
Sodium	ppm	ASTM D5185(m)	5	10
Lithium	ppm	ASTM D5185(m)	475	401
Sulfur	ppm	ASTM D5185(m)	750	588

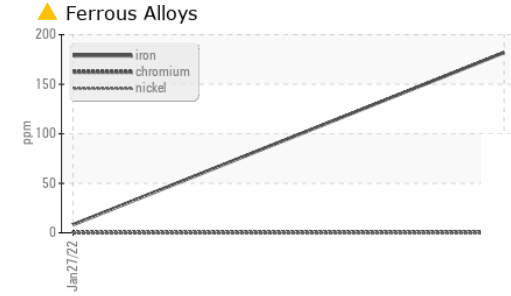
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>150	2
Potassium	ppm	ASTM D5185(m)		150

GREASE CONDITION

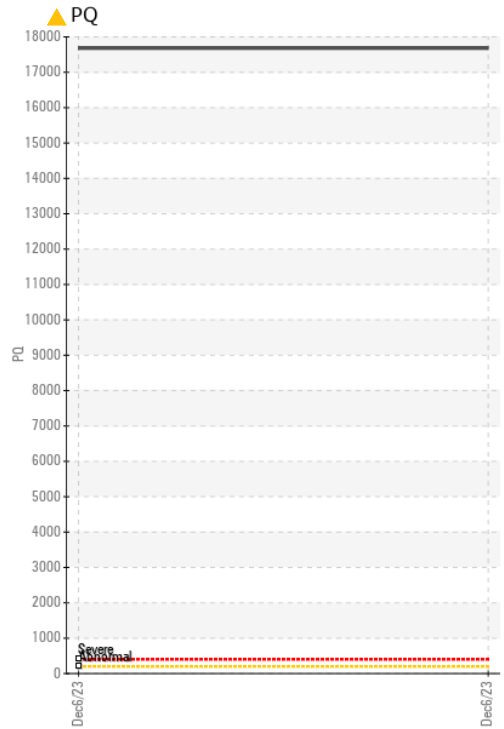
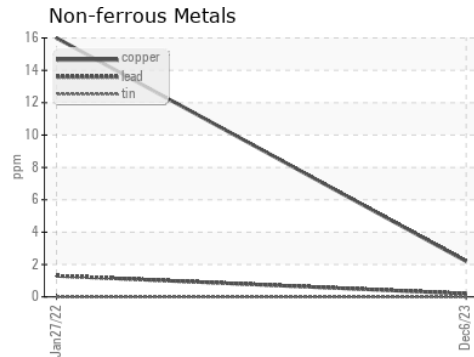
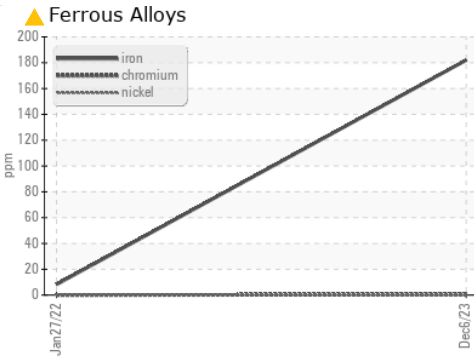
method	limit/base	current	history1	history2
Grease Color	Visual*	White	Grey	---
Texture	In-house*		Stringy	---
NLGI Consistency	NLGI Scale	SKF Method*	1.5	▲ 3

GREASE ANALYSIS



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					no image
Bottom					no image
PrtFilter				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **ALGOMA STEEL INC. - STORES DEPT.**
Sample No. : WC0885748 **Received** : 22 Dec 2023 301 WALLACE TERRACE
Lab Number : **02605142** **Diagnosed** : 02 Jan 2024 SAULT STE MARIE, ON
Unique Number : 5698227 **Diagnostician** : Bill Quesnel CA P6C 1K8
Test Package : GRS 1 (Additional Tests: BottomAnalysis) Contact: Algoma Reliability

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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