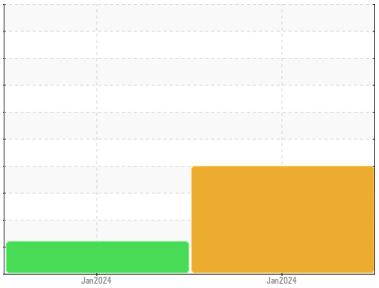
GREASE ANALYSIS

Sample Rating Trend



WEAR

Machine Id
MAYSVILLE HOIST
Component
Grease
Fluid
MOBIL Mobilux EP 0 (--- GAL)

DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor. Analytical Ferrography: The amount of wear present is elevated but within expected levels for the duty service and tolerance for a coupling. Consider taking a half-interval sample to verify that ferrous content (Fe on IC, PQ) results have decreased as expected from the re-grease that occurred.

▲ Wear

PQ levels are noted. Wear particle analysis indicates that the ferrous sliding particles are noted. Iron ppm levels are noted. All other component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

Grease Condition

The condition of the grease is acceptable for the time in service.

Contaminants

There is no indication of any contamination in the grease.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0896569**	WC0896570	---
Sample Date		Client Info		**09 Jan 2024**	08 Jan 2024	---
Machine Age	mths	Client Info		**6**	6	---
Grease Age	mths	Client Info		**6**	6	---
Grease Serviced		Client Info		**Changed**	Changed	---
Sample Status				**ATTENTION**	ATTENTION	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>200	▲ **212**	14	---
Iron	ppm	ASTM D5185m	>250	▲ **162**	2	---
Chromium	ppm	ASTM D5185m	>10	**<1**	<1	---
Nickel	ppm	ASTM D5185m	>5	**<1**	<1	---
Cadmium	ppm	ASTM D5185m		**0**	<1	---
Titanium	ppm	ASTM D5185m		**<1**	0	---
Vanadium	ppm	ASTM D5185m		**0**	<1	---
Lead	ppm	ASTM D5185m	>25	**<1**	0	---
Copper	ppm	ASTM D5185m	>75	**<1**	3	---
Tin	ppm	ASTM D5185m	>5	**0**	0	---
Silver	ppm	ASTM D5185m	>5	**<1**	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**245**	268	---
Magnesium	ppm	ASTM D5185m		**1**	<1	---
Manganese	ppm	ASTM D5185m		**1**	<1	---
Molybdenum	ppm	ASTM D5185m		**<1**	<1	---
Phosphorus	ppm	ASTM D5185m		**980**	1053	---
Zinc	ppm	ASTM D5185m		**1739**	1671	---

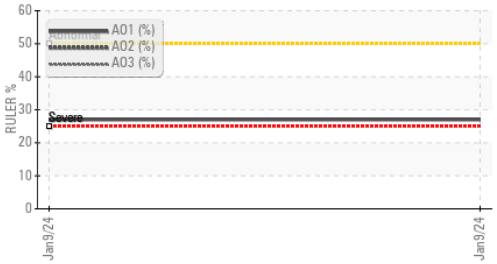
THICKENER/SOAP		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m		**2**	<1	---
Barium	ppm	ASTM D5185m		**2**	1	---
Calcium	ppm	ASTM D5185m		**13**	15	---
Sodium	ppm	ASTM D5185m		**10**	12	---
Lithium	ppm	ASTM D5185m		**404**	360	---
Sulfur	ppm	ASTM D5185m		**7597**	8192	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>150	**6**	4	---
Potassium	ppm	ASTM D5185m		**2**	4	---
Water	%	ASTM D6304	>0.1	**0.017**	0.028	---
ppm Water	ppm	ASTM D6304	>1000	**175**	283	---

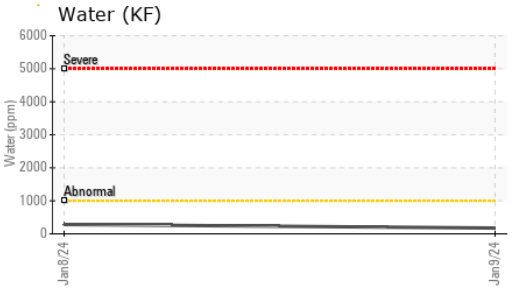
GREASE CONDITION		method	limit/base	current	history1	history2
Grease Color		*Visual		**Brown**	Yellow	---
Texture		*In-house		**Buttery**	Buttery	---
NLGI Consistency	NLGI Scale	*SKF Method		**000-00**	00-0	---
Anti-Oxidant 1	%	ASTM D6971	<25%	**27**	---	---

GREASE ANALYSIS

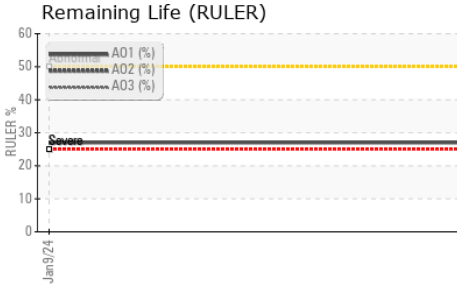
Remaining Life (RULER)



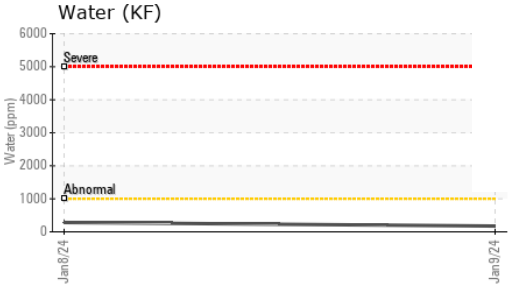
Water (KF)

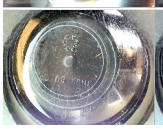
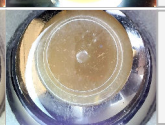


Remaining Life (RULER)



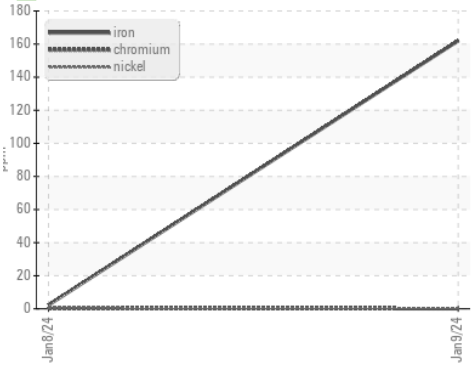
Water (KF)



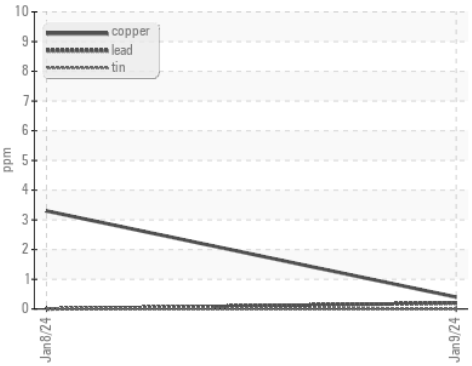
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

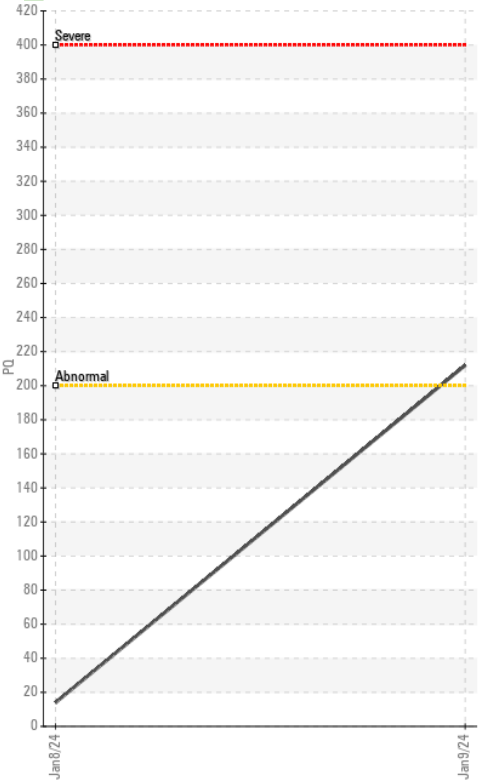
Ferrous Alloys



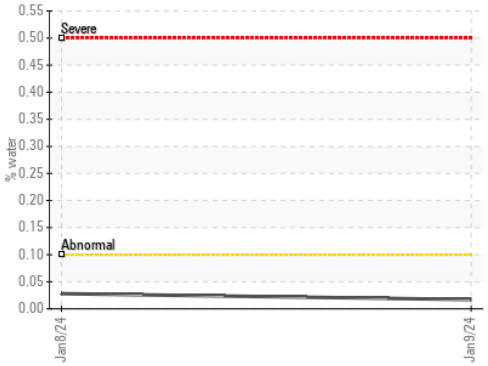
Non-ferrous Metals



PQ



Water



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0896569 **Recieved** : 11 Jan 2024
Lab Number : 06058569 **Diagnosed** : 22 Jan 2024
Unique Number : 10829951 **Diagnostician** : Aaron Black
Test Package : GRS 3 (Additional Tests: SCREEN)

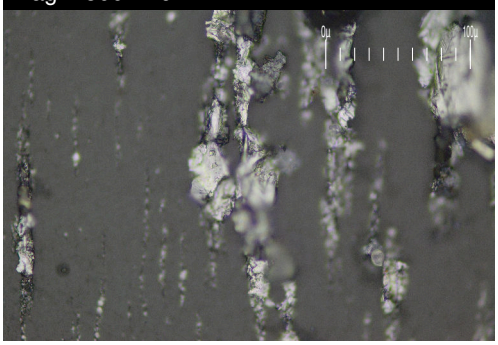
To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

COALFIELD SERVICES
3203 PEPPERS FERRY RD
WYTHEVILLE, VA
US 24382
Contact: REBECCA GRUBB
bgrubb@coalfieldservices.com
T:
F:

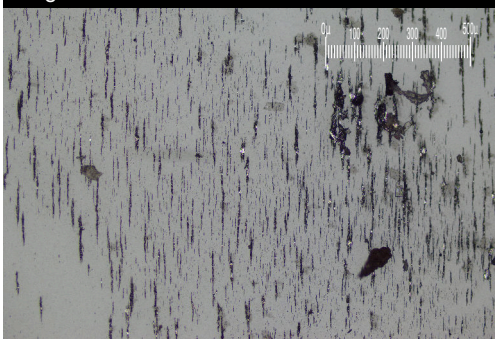
FERROGRAPHY REPORT

Machine Id
MAYSVILLE HOIST
Component
Grease
Fluid
MOBIL Mobilux EP 0 (--- GAL)

Magn: 500x Illum: RW



Magn: 100x Illum: RW



Magn: 100x Illum: RW

FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	*ASTM D7684		2	1	
Ferrous Sliding	Scale 0-10	*ASTM D7684		2	1	
Ferrous Cutting	Scale 0-10	*ASTM D7684				
Ferrous Rolling	Scale 0-10	*ASTM D7684				
Ferrous Break-in	Scale 0-10	*ASTM D7684				
Ferrous Spheres	Scale 0-10	*ASTM D7684				
Ferrous Black Oxides	Scale 0-10	*ASTM D7684				
Ferrous Red Oxides	Scale 0-10	*ASTM D7684				
Ferrous Corrosive	Scale 0-10	*ASTM D7684				
Ferrous Other	Scale 0-10	*ASTM D7684				
Nonferrous Rubbing	Scale 0-10	*ASTM D7684				
Nonferrous Sliding	Scale 0-10	*ASTM D7684				
Nonferrous Cutting	Scale 0-10	*ASTM D7684				
Nonferrous Rolling	Scale 0-10	*ASTM D7684				
Nonferrous Other	Scale 0-10	*ASTM D7684				
Carbonaceous Material	Scale 0-10	*ASTM D7684				
Lubricant Degradation	Scale 0-10	*ASTM D7684				
Sand/Dirt	Scale 0-10	ASTM D7684				
Fibres	Scale 0-10	*ASTM D7684				
Spheres	Scale 0-10	*ASTM D7684				
Other	Scale 0-10	*ASTM D7684		2		

WEAR

PQ levels are noted. Wear particle analysis indicates that the ferrous sliding particles are noted. Iron ppm levels are noted. All other component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

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