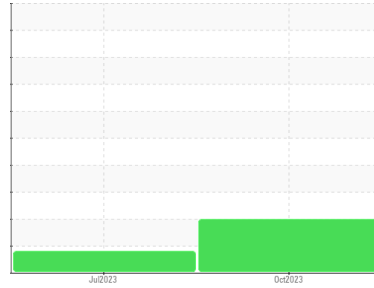




PROBLEM SUMMARY

Sample Rating Trend



VISUAL METAL



Area

Preparation-Prep CBL MILL

Machine Id

[Preparation-Prep CBL MILL] 360006002 - CBL MILL BUSHING LUBE UNIT

Component

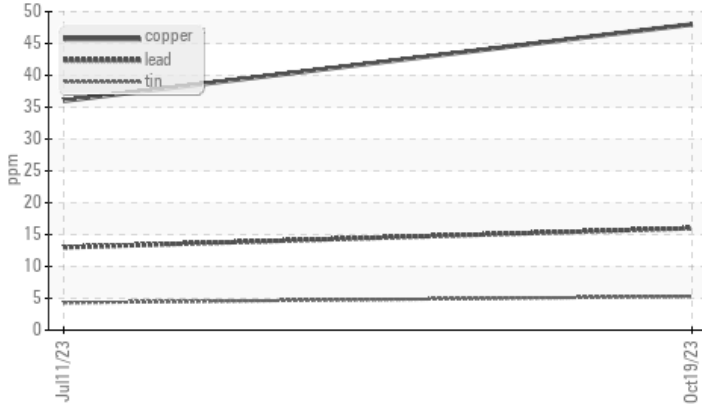
Lube System

Fluid

SHELL MORLINA S3 BA 220 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL	ABNORMAL	---
Copper	ppm	ASTM D5185m	>20
White Metal	scalar	*Visual	NONE
	▲ 48	▲ 36	---
	▲ MODER	LIGHT	---

Customer Id: MICAND
 Sample No.: TLC0001090
 Lab Number: 05998148
 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

11 Jul 2023 Diag: Jonathan Hester

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

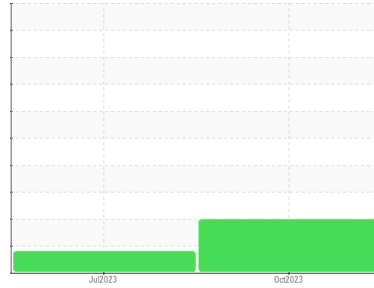




OIL ANALYSIS REPORT

Sample Rating Trend

VISUAL METAL



Area
Preparation-Prep CBL MILL
 Machine Id
[Preparation-Prep CBL MILL] 360006002 - CBL MILL BUSHING LUBE UNIT
 Component
Lube System
 Fluid
SHELL MORLINA S3 BA 220 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. Moderate concentration of visible metal present.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		TLC0001090	TLC0001190	---
Sample Date	Client Info		19 Oct 2023	11 Jul 2023	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		14	13	---
Iron	ppm	ASTM D5185m >20	0	0	---
Chromium	ppm	ASTM D5185m >20	<1	0	---
Nickel	ppm	ASTM D5185m >20	<1	<1	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >20	2	0	---
Lead	ppm	ASTM D5185m >20	16	13	---
Copper	ppm	ASTM D5185m >20	▲ 48	▲ 36	---
Tin	ppm	ASTM D5185m >20	5	4	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	---
Barium	ppm	ASTM D5185m	19	0	---
Molybdenum	ppm	ASTM D5185m	0	0	---
Manganese	ppm	ASTM D5185m	0	<1	---
Magnesium	ppm	ASTM D5185m	<1	0	---
Calcium	ppm	ASTM D5185m	<1	<1	---
Phosphorus	ppm	ASTM D5185m	39	3	---
Zinc	ppm	ASTM D5185m	8	0	---
Sulfur	ppm	ASTM D5185m	6292	6945	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	7	4	---
Sodium	ppm	ASTM D5185m	0	0	---
Potassium	ppm	ASTM D5185m >20	<1	2	---

FLUID DEGRADATION

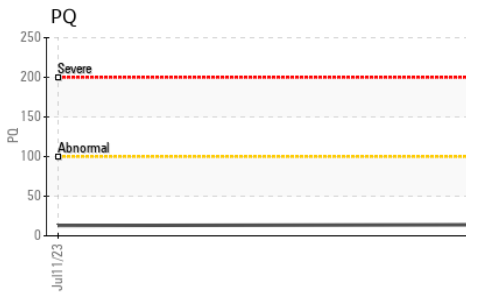
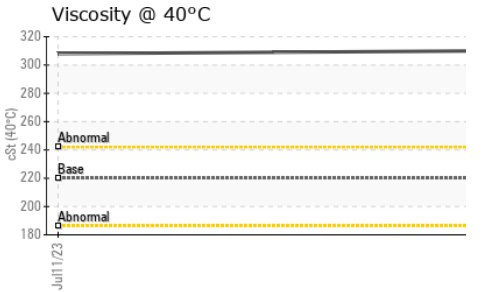
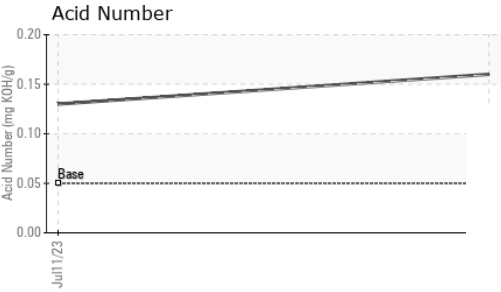
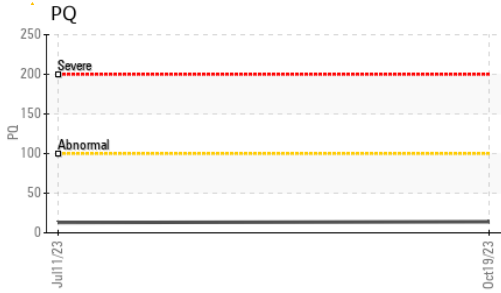
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.05	0.16	0.13	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	▲ MODER	LIGHT	---
Yellow Metal	scalar	*Visual NONE	NONE	NONE	---
Precipitate	scalar	*Visual NONE	NONE	NONE	---
Silt	scalar	*Visual NONE	NONE	NONE	---
Debris	scalar	*Visual NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	---
Appearance	scalar	*Visual NORML	NORML	NORML	---
Odor	scalar	*Visual NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual >0.05	NEG	NEG	---
Free Water	scalar	*Visual	NEG	Subm	---

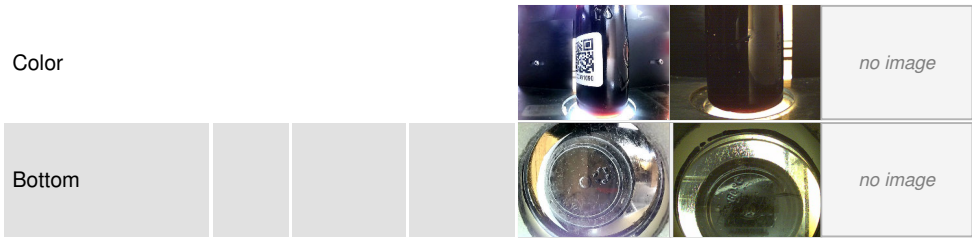


OIL ANALYSIS REPORT

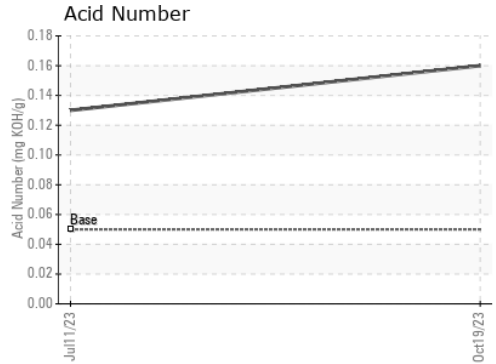
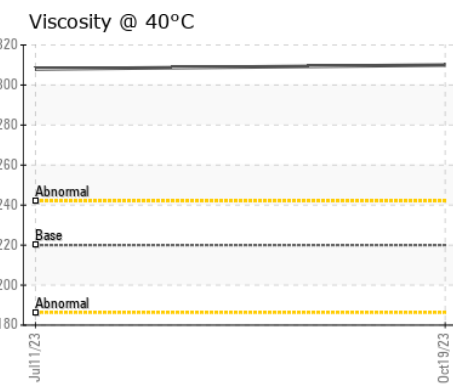
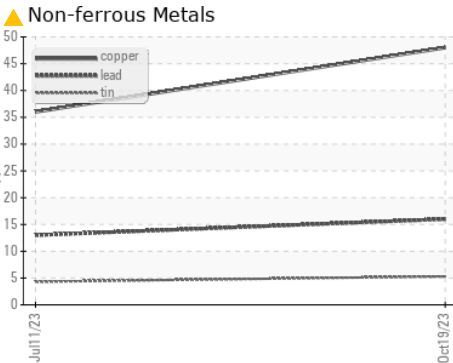
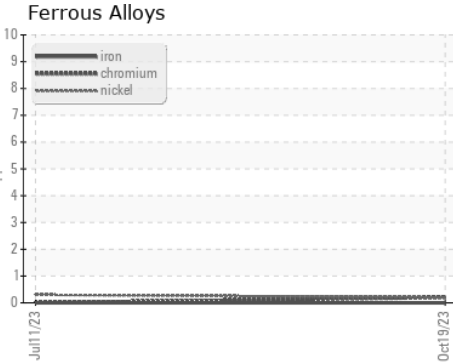


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 220	310	308	---

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



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TLC0001090 **Received** : 03 Nov 2023
Lab Number : 05998148 **Diagnosed** : 14 Nov 2023
Unique Number : 10726508 **Diagnostician** : Doug Bogart
Test Package : PLANT

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)

MICHELIN US 10

16 BIBB WAY
ANDERSON, SC
US 29626

Contact: TERRICK PRESLEY
terrick.presley@michelin.com

T: (803)761-8053

F: