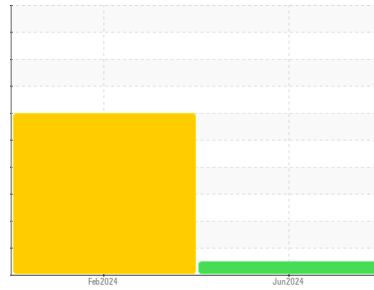




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area

**Plant US1 Greenville**

Machine Id

**MAF3 - Extruder**

Component

**Gearbox**

Fluid

**SHELL OMALA 320 (--- GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.  
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal.

#### 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		<b>TLC0001331</b>	TLC0001534	---
Sample Date	Client Info		<b>04 Jun 2024</b>	19 Feb 2024	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>NORMAL</b>	SEVERE	---

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	---

### WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>30</b>	72	---
Iron	ppm	ASTM D5185m >200	<b>105</b>	▲ 471	---
Chromium	ppm	ASTM D5185m >15	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185m >15	<b>2</b>	11	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	9	---
Lead	ppm	ASTM D5185m >100	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >200	<b>&lt;1</b>	3	---
Tin	ppm	ASTM D5185m >25	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5.5	<b>3</b>	11	---
Barium	ppm	ASTM D5185m 0.4	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 0.5	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	4	---
Magnesium	ppm	ASTM D5185m 23	<b>0</b>	2	---
Calcium	ppm	ASTM D5185m 13	<b>21</b>	33	---
Phosphorus	ppm	ASTM D5185m 450	<b>248</b>	279	---
Zinc	ppm	ASTM D5185m 9.9	<b>4</b>	3	---
Sulfur	ppm	ASTM D5185m 8181	<b>13243</b>	14181	---

### CONTAMINANTS

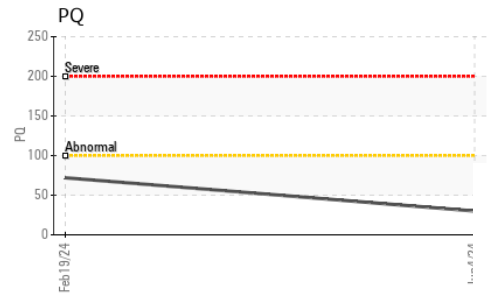
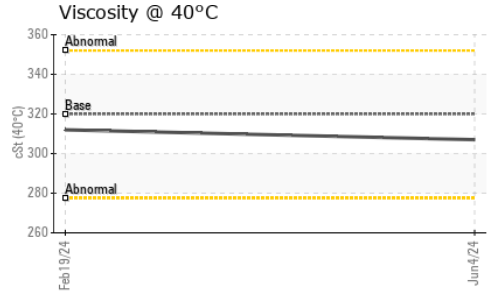
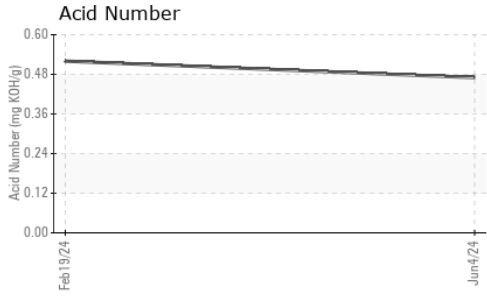
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>9</b>	5	---
Sodium	ppm	ASTM D5185m	<b>3</b>	4	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.47</b>	0.52	---



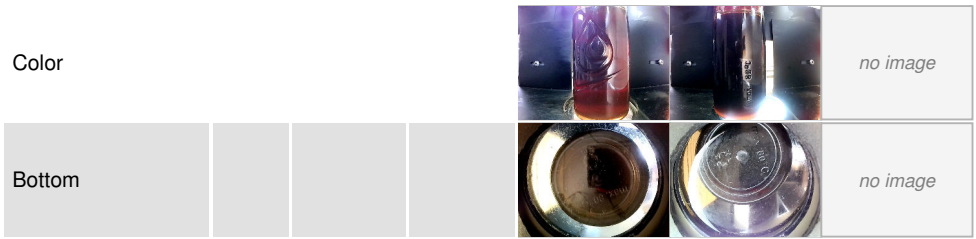
# OIL ANALYSIS REPORT



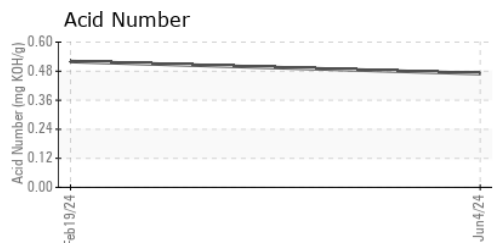
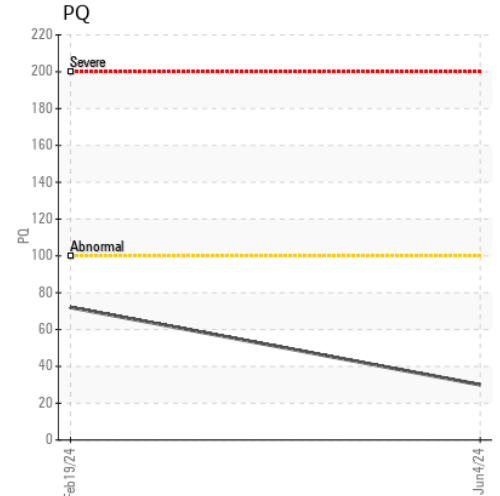
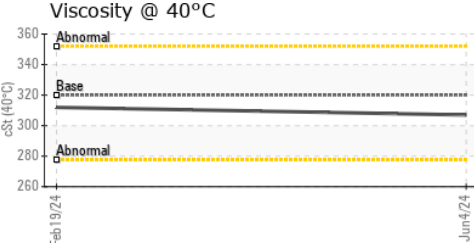
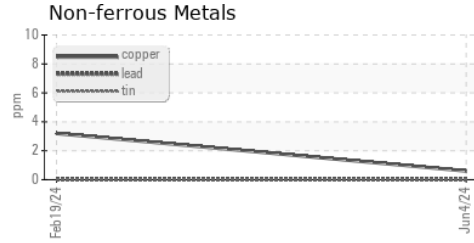
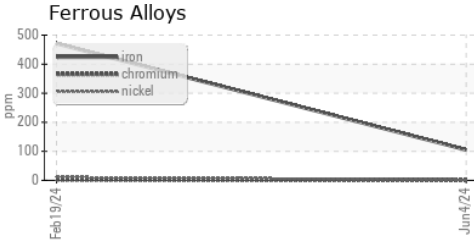
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 320	<b>307</b>	312	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TLC0001331      **Received** : 05 Jun 2024  
**Lab Number** : **06200824**      **Tested** : 06 Jun 2024  
**Unique Number** : 11062947      **Diagnosed** : 06 Jun 2024 - Wes Davis  
**Test Package** : PLANT

**MICHELIN TIRE-GRENVILLE US 1 JN DOCK**  
 1401 ANTIOCH CHURCH ROAD  
 Greenville, SC  
 US 29605

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)