



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area

**Preparation-Prep NAR 650**

Machine Id

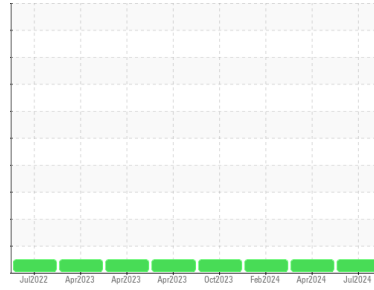
**[Preparation-Prep NAR 650] 360008004 - NAR 650 EXTRUDER**

Component

**Gearbox**

Fluid

**SHELL OMALA S2 GX 320 (280 LTR)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### 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>TLC0001962</b>	TLC0001754	TLC0001366
Sample Date	Client Info	<b>11 Jul 2024</b>	15 Apr 2024	01 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	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	<b>&gt;0.2</b>	<b>NEG</b>	NEG

## WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184	<b>23</b>	28	22	
Iron	ppm	ASTM D5185m	<b>&gt;200</b>	<b>24</b>	21
Chromium	ppm	ASTM D5185m	<b>&gt;15</b>	<b>0</b>	0
Nickel	ppm	ASTM D5185m	<b>&gt;15</b>	<b>&lt;1</b>	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	<b>&gt;25</b>	<b>0</b>	0
Lead	ppm	ASTM D5185m	<b>&gt;100</b>	<b>0</b>	0
Copper	ppm	ASTM D5185m	<b>&gt;200</b>	<b>6</b>	6
Tin	ppm	ASTM D5185m	<b>&gt;25</b>	<b>0</b>	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	6.2	<b>12</b>	12
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1
Magnesium	ppm	ASTM D5185m	0	<b>0</b>	2
Calcium	ppm	ASTM D5185m	0.0	<b>0</b>	2
Phosphorus	ppm	ASTM D5185m	290	<b>351</b>	342
Zinc	ppm	ASTM D5185m	3.8	<b>15</b>	24
Sulfur	ppm	ASTM D5185m	8167	<b>15893</b>	15694

## CONTAMINANTS

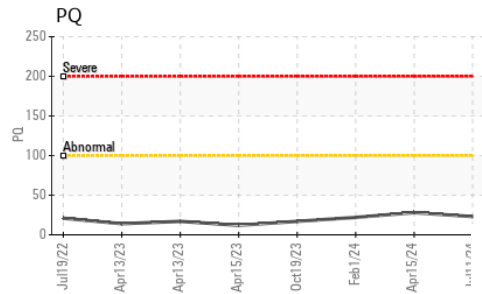
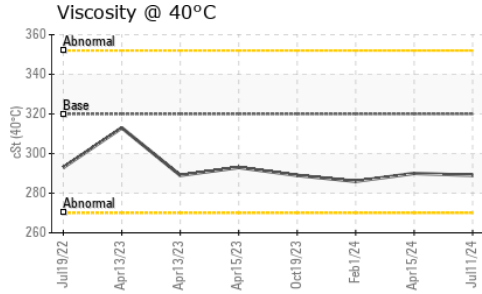
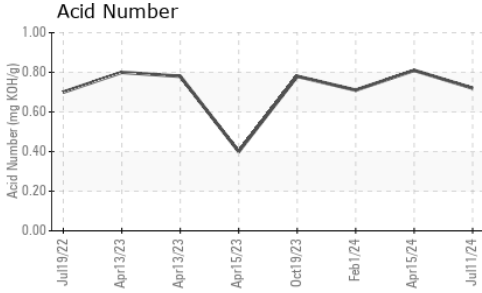
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	<b>6</b>	3
Sodium	ppm	ASTM D5185m		<b>2</b>	2
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.72</b>	0.81



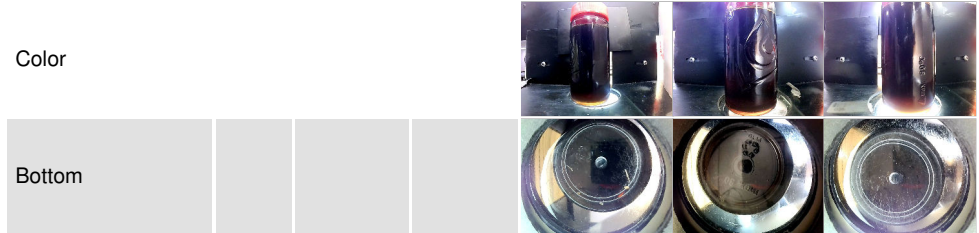
# OIL ANALYSIS REPORT



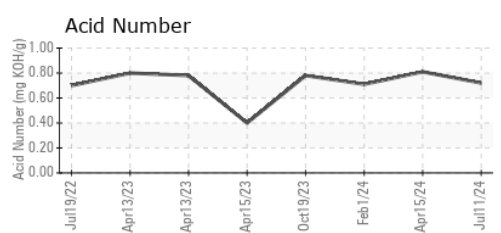
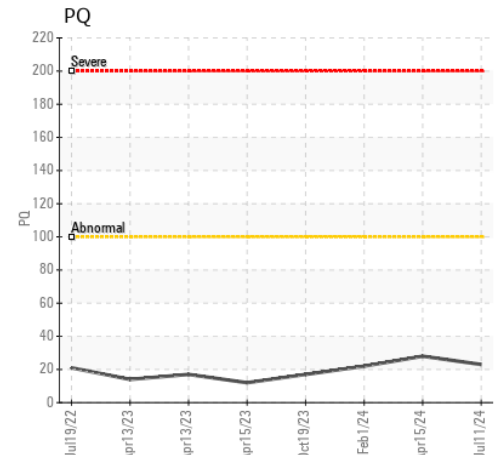
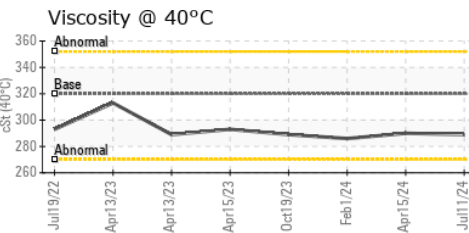
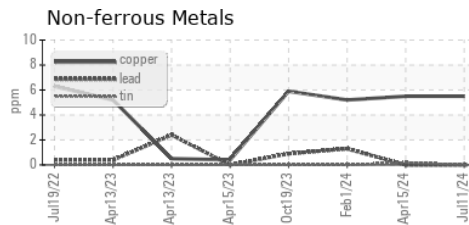
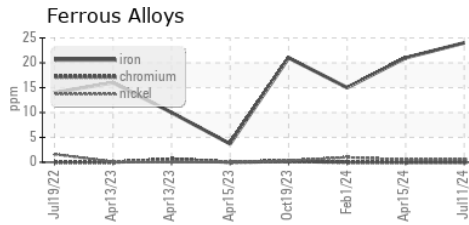
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	289	290

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TLC0001962  
**Lab Number** : 06240967  
**Unique Number** : 11129801  
**Test Package** : PLANT  
**Received** : 18 Jul 2024  
**Tested** : 20 Jul 2024  
**Diagnosed** : 20 Jul 2024 - Wes Davis

**MICHELIN US 10**  
 16 BIBB WAY  
 ANDERSON, SC  
 US 29626

Contact: TERRICK PRESLEY  
 terrick.presley@michelin.com  
 T: (803)761-8053  
 F:

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)