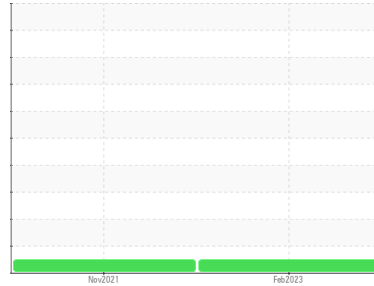




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**COMBILINE [TREAD 2]**  
 Machine Id  
**[COMBILINE] EXTR-012 EXTRUDER 012 GB EXTR-012 EXTRUDER 012 GB**  
 Component  
**2 Gear Reducer**  
 Fluid  
**MOBIL MOBILGEAR 600 XP 320 (88 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>WC0755636</b>	WC0620158	---
Sample Date	Client Info	<b>05 Feb 2023</b>	08 Nov 2021	---
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>	NORMAL	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	---

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	<b>9</b>	---	---
Iron	ppm	ASTM D5185m >150	<b>9</b>	5
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	<1
Silver	ppm	ASTM D5185m	<b>0</b>	<1
Aluminum	ppm	ASTM D5185m >25	<b>&lt;1</b>	0
Lead	ppm	ASTM D5185m >100	<b>0</b>	0
Copper	ppm	ASTM D5185m >50	<b>2</b>	2
Tin	ppm	ASTM D5185m >10	<b>0</b>	0
Antimony	ppm	ASTM D5185m >5	<b>---</b>	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>14</b>	37
Barium	ppm	ASTM D5185m	<b>0</b>	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1
Magnesium	ppm	ASTM D5185m	<b>0</b>	0
Calcium	ppm	ASTM D5185m	<b>3</b>	1
Phosphorus	ppm	ASTM D5185m	<b>314</b>	315
Zinc	ppm	ASTM D5185m	<b>0</b>	0
Sulfur	ppm	ASTM D5185m	<b>18765</b>	15037

## CONTAMINANTS

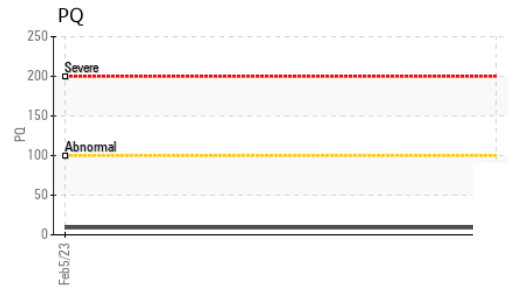
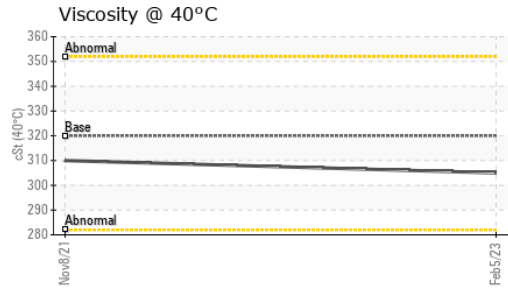
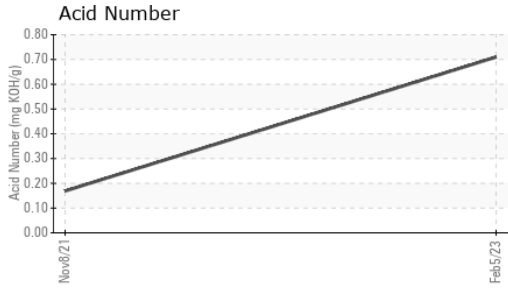
method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>&lt;1</b>	<1
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	<1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.71</b>	0.169



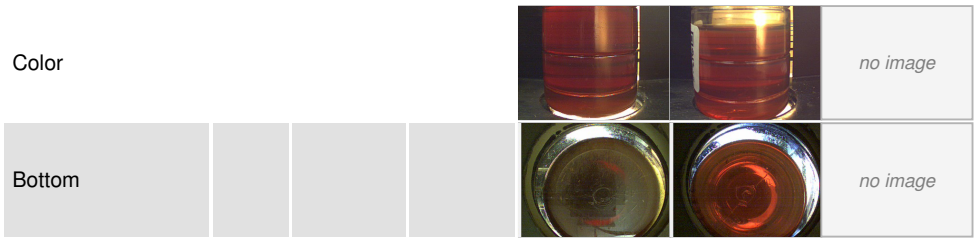
# OIL ANALYSIS REPORT



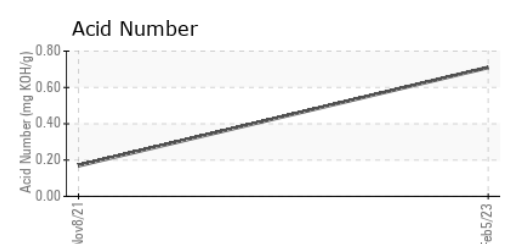
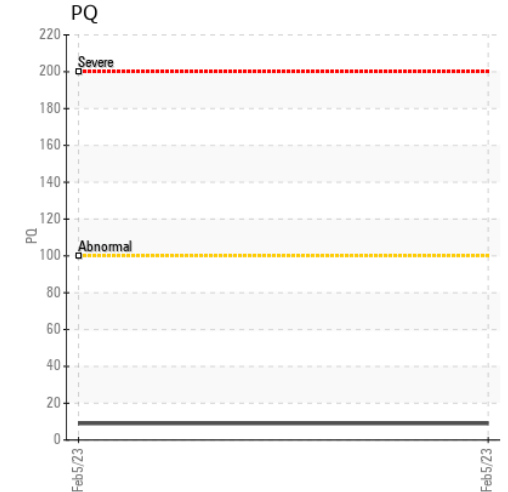
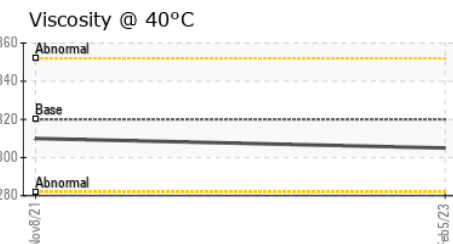
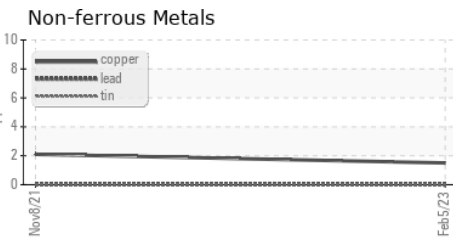
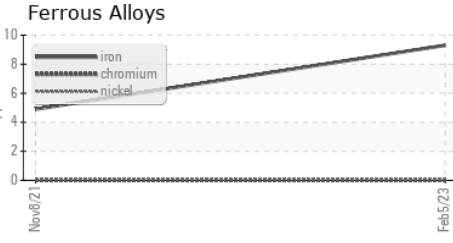
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	<b>305</b>	310

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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0755636 **Received** : 06 Feb 2023  
**Lab Number** : **05759570** **Diagnosed** : 07 Feb 2023  
**Unique Number** : 10324177 **Diagnostician** : Wes Davis  
**Test Package** : PLANT

**NOKIAN TYRES US OPERATIONS LLC**  
 520 NOKIAN TYRES DRIVE  
 DAYTON, TN  
 US 37321  
 Contact: CHRIS NAPIER  
 christopher.napier@nokiantyres.com  
 T: (423)457-3121  
 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)