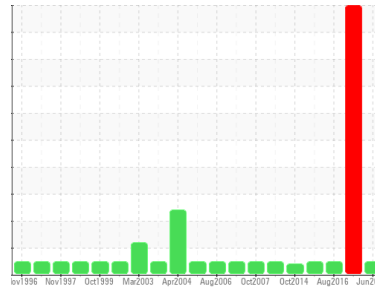




# OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id  
**BROWNING 215 525620 #20 SCREW**

Component  
**Gearbox**  
Fluid  
**MOBIL MOBILGEAR SHC 220 (9 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>WC0951873</b>	WC0750576	WC938417
Sample Date	Client Info			<b>19 Jun 2024</b>	01 Feb 2024	30 Aug 2016
Machine Age	hrs	Client Info		<b>0</b>	0	34000
Oil Age	hrs	Client Info		<b>0</b>	0	1000
Oil Changed	Client Info			<b>Not Chngd</b>	N/A	Not Chngd
Sample Status				<b>NORMAL</b>	SEVERE	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		<b>2</b>	▲ 1824	19
Iron	ppm	ASTM D5185(m)	>200	<b>21</b>	▲ 1229	10
Chromium	ppm	ASTM D5185(m)	>15	<b>0</b>	5	0
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	3	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	● 43	<1
Lead	ppm	ASTM D5185(m)	>100	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>200	<b>&lt;1</b>	2	<1
Tin	ppm	ASTM D5185(m)	>25	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

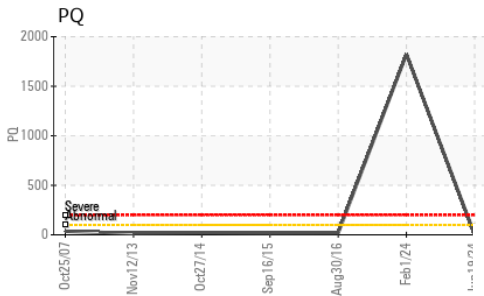
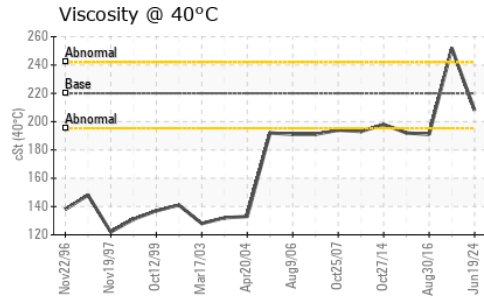
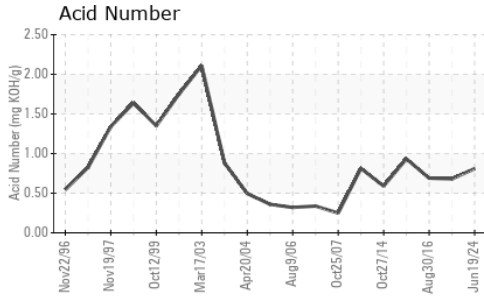
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>6</b>	90	9
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	8	<1
Magnesium	ppm	ASTM D5185(m)		<b>1</b>	● 65	0
Calcium	ppm	ASTM D5185(m)		<b>31</b>	● 2243	12
Phosphorus	ppm	ASTM D5185(m)		<b>374</b>	● 1071	403
Zinc	ppm	ASTM D5185(m)		<b>1</b>	5	<1
Sulfur	ppm	ASTM D5185(m)		<b>2695</b>	2587	1671
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	<b>18</b>	▲ 193	18
Sodium	ppm	ASTM D5185(m)		<b>0</b>	14	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	86	4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>0.81</b>	0.68	0.69



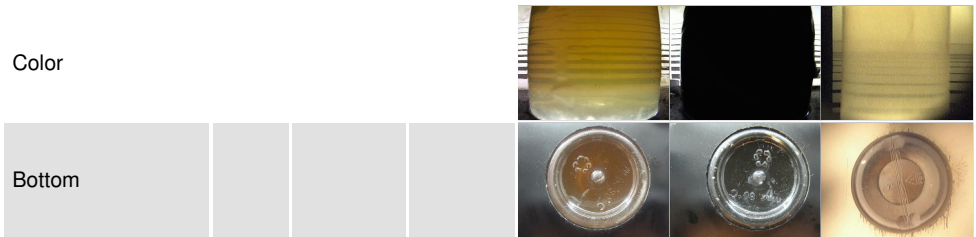
# OIL ANALYSIS REPORT



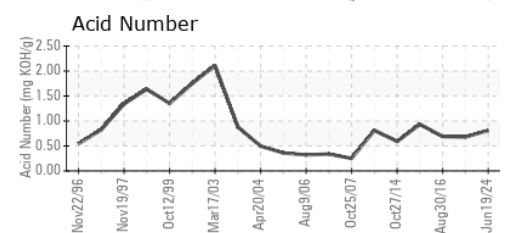
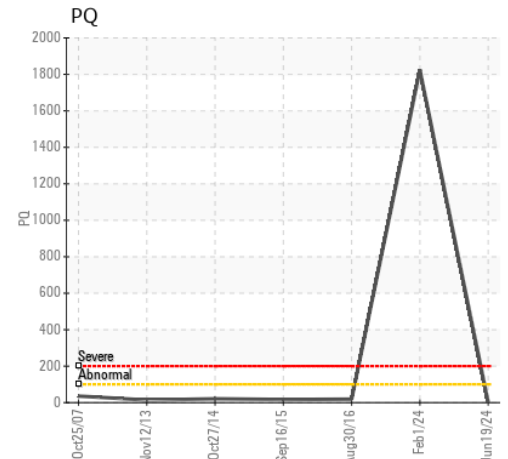
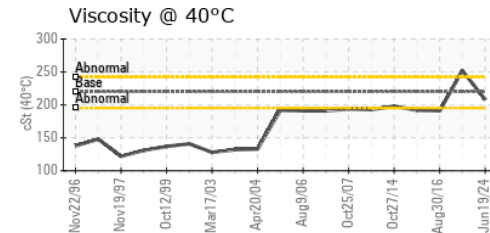
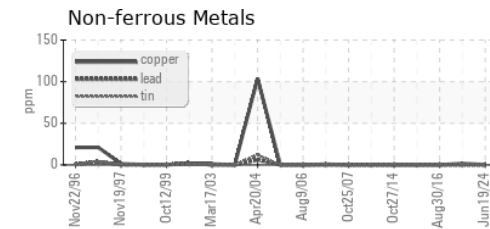
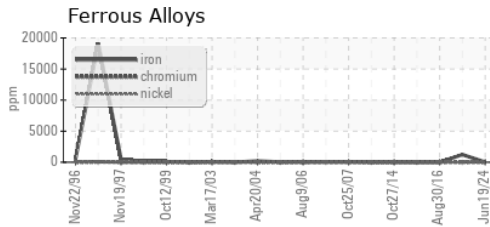
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	VLITE
Debris	scalar	Visual*	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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 D7279(m)	220	208	252

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0951873 **Received** : 21 Jun 2024  
**Lab Number** : 02643495 **Tested** : 21 Jun 2024  
**Unique Number** : 5801034 **Diagnosed** : 21 Jun 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**CARMEUSE LIME CANADA LTD.**  
 BOX 1690., HWY 17 EAST  
 BLIND RIVER, ON  
 CA P0R 1B0  
 Contact: Rejean Baillargeon  
 rejean.baillargeon@carmeusena.com  
 T: (705)849-2201  
 F: (705)849-2355

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.