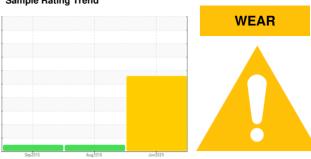


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **BROWNING 220 9 SCREW**

Gearbox

**MOBIL MOBILGEAR SHC 220 (9 LTR)** 

### **DIAGNOSIS**

#### Recommendation

We advise that you check for visible metal particles in the oil. We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend an early resample to monitor this condition.

### Wear

PQ PQ levels are abnormal. Iron ppm levels are abnormal. Moderate concentration of visible metal present. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

### Contamination

There is a moderate concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component.

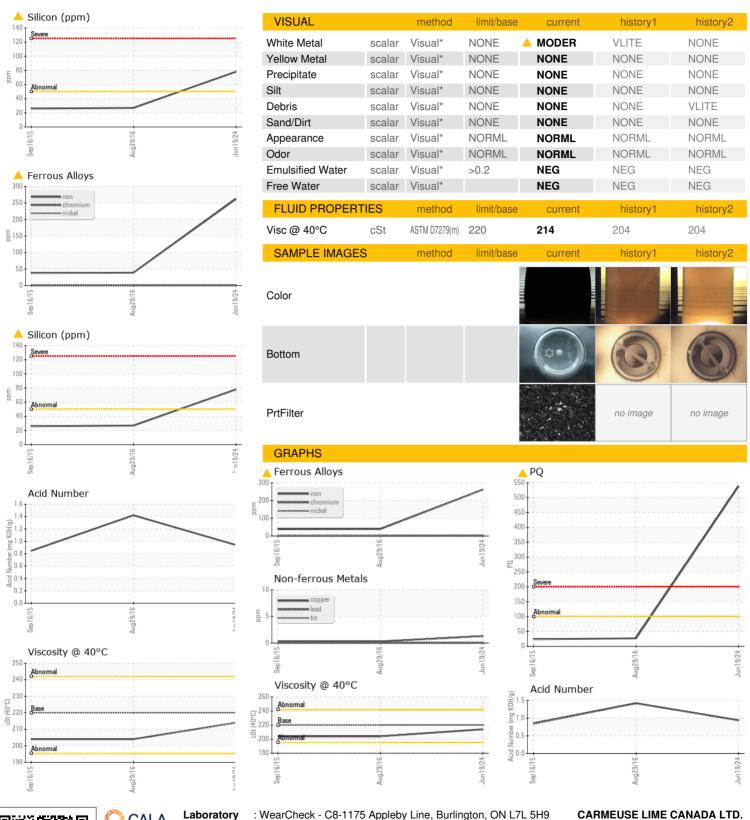
### **Fluid Condition**

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	AATIONI	method	limit/base		la la tament	la i a ta uu . O
	MATION		IIIIII/base	current	history1	history2
Sample Number		Client Info		WC0951872	WC939807	WC938367
Sample Date	la u a	Client Info		19 Jun 2024	29 Aug 2016	16 Sep 2015
Machine Age	hrs	Client Info		0	47000	43603
Oil Age	hrs	Client Info		-	6000	2601
Oil Changed		Client Info		Not Changd ABNORMAL	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		<b>△</b> 538	27	24
Iron	ppm	ASTM D5185(m)	>200	<u>^</u> 262	39	38
Chromium	ppm	ASTM D5185(m)	>15	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>15	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	1	<1	<1
Lead	ppm	ASTM D5185(m)	>100	0	0	0
Copper	ppm	ASTM D5185(m)	>200	1	<1	<1
Tin	ppm	ASTM D5185(m)	>25	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	<1	1
Barium	ppm	ASTM D5185(m)		<1	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		2	<1	<1
Magnesium	ppm	ASTM D5185(m)		1	<1	1
Calcium	ppm	ASTM D5185(m)		21	33	26
Phosphorus	ppm	ASTM D5185(m)		426	387	416
Zinc	ppm	ASTM D5185(m)		3	2	2
Sulfur	ppm	ASTM D5185(m)		1740	1621	1996
Lithium	ppm	ASTM D5185(m)		2	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	<u>^</u> 78	27	26
Onicon				0	0	0
Sodium	ppm	ASTM D5185(m)		U	U	U
	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>20	<1	0	<1
Sodium	ppm	, ,	>20 limit/base			



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WC0951872 Lab Number

: 02643494 Unique Number : 5801033

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 21 Jun 2024

**Tested** : 26 Jun 2024 Diagnosed : 26 Jun 2024 - Kevin Marson

BOX 1690,, HWY 17 EAST BLIND RIVER, ON CA POR 1B0

Test Package : IND 2 ( Additional Tests: Bottom, BottomAnalysis, FilterPatch, TAN Man ) Contact: Rejean Baillargeon To discuss this sample report, contact Customer Service at 1-800-268-2131. rejean.baillargeon@carmeusena.com 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.

T: (705)849-2201 F: (705)849-2355