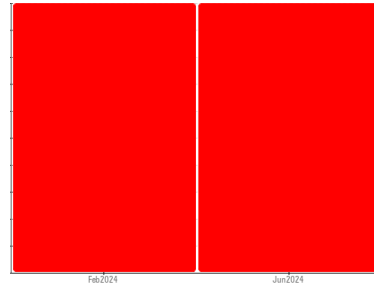




PROBLEM SUMMARY

Sample Rating Trend



WEAR

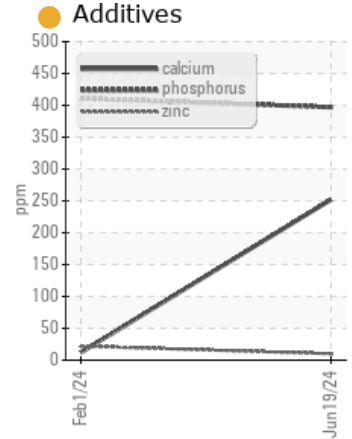
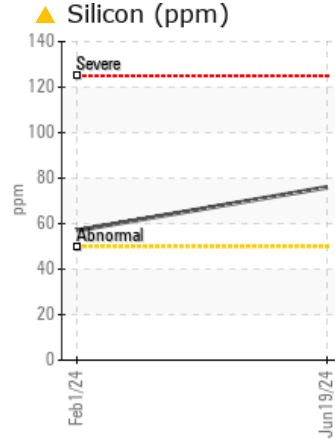
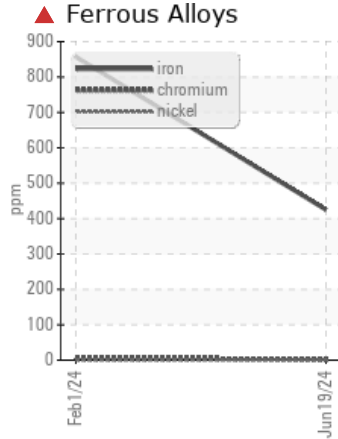
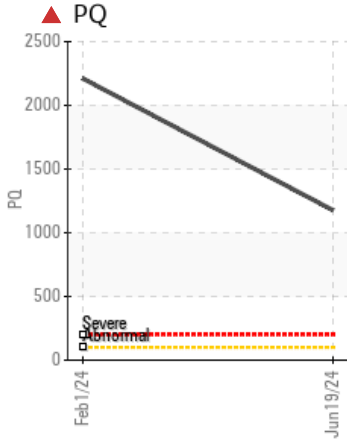


Machine Id
#6 SCREW

Component
Gearbox

Fluid
MOBIL MOBILGEAR SHC 220 (--- LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. 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 that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	---
PQ		ASTM D8184*		▲ 1177	▲ 2211	---
Iron	ppm	ASTM D5185(m)	>200	▲ 425	▲ 857	---
Silicon	ppm	ASTM D5185(m)	>50	▲ 76	57	---
White Metal	scalar	Visual*	NONE	▲ MODER	NONE	---
PrtFilter					no image	no image

Customer Id: REIBLI
Sample No.: WC0951879
Lab Number: 02643501
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
Check Breathers	---	---	?	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.
Check Dirt Access	---	---	?	We advise that you check all areas where contaminants can enter the system.
Check For Visual Metal	---	---	?	We advise that you check for visible metal particles in the oil.

HISTORICAL DIAGNOSIS

WEAR



01 Feb 2024 Diag: Bill Quesnel

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Iron ppm levels are severe. PQ levels are severe. Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report

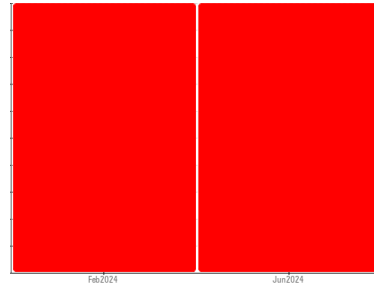




OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
#6 SCREW

Component
Gearbox

Fluid
MOBIL MOBILGEAR SHC 220 (--- LTR)

DIAGNOSIS

▲ Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. 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 that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

▲ Wear

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

▲ Contamination

Calcium and/or magnesium levels higher than normal indicating possible lime contamination, advise investigate. 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 INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0951879	WC0886519	---
Sample Date	Client Info			19 Jun 2024	01 Feb 2024	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			Not Changed	Not Changed	---
Sample Status				SEVERE	SEVERE	---

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

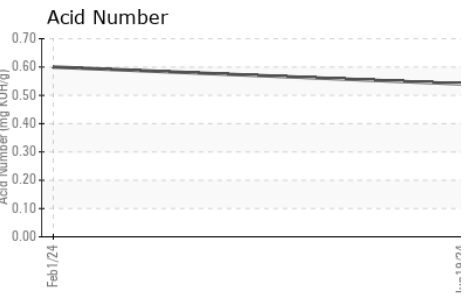
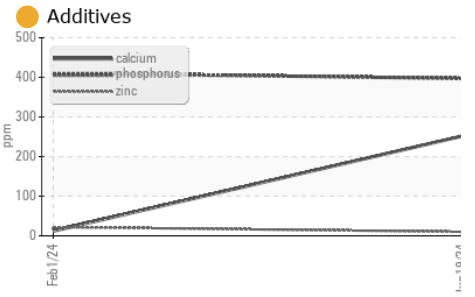
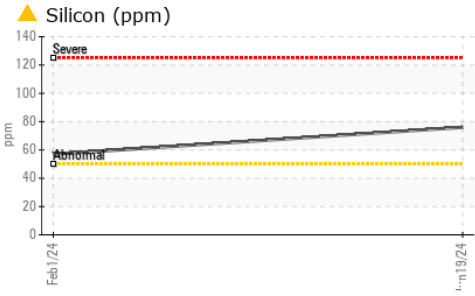
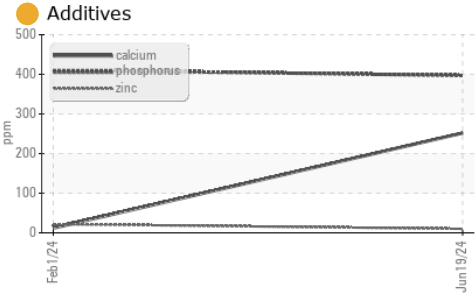
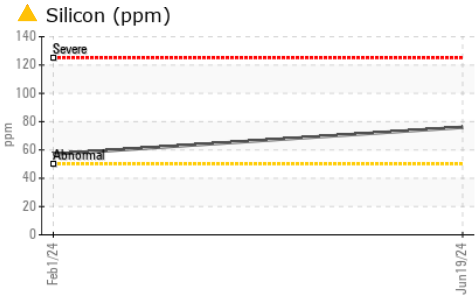
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		▲ 1177	▲ 2211	---
Iron	ppm	ASTM D5185(m)	>200	▲ 425	▲ 857	---
Chromium	ppm	ASTM D5185(m)	>15	2	8	---
Nickel	ppm	ASTM D5185(m)	>15	<1	0	---
Titanium	ppm	ASTM D5185(m)		<1	0	---
Silver	ppm	ASTM D5185(m)		<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	1	2	---
Lead	ppm	ASTM D5185(m)	>100	0	0	---
Copper	ppm	ASTM D5185(m)	>200	<1	1	---
Tin	ppm	ASTM D5185(m)	>25	0	0	---
Antimony	ppm	ASTM D5185(m)	>5	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	<1	---
Barium	ppm	ASTM D5185(m)		<1	<1	---
Molybdenum	ppm	ASTM D5185(m)		0	0	---
Manganese	ppm	ASTM D5185(m)		2	4	---
Magnesium	ppm	ASTM D5185(m)		9	2	---
Calcium	ppm	ASTM D5185(m)		● 252	12	---
Phosphorus	ppm	ASTM D5185(m)		397	411	---
Zinc	ppm	ASTM D5185(m)		10	22	---
Sulfur	ppm	ASTM D5185(m)		1683	1877	---
Lithium	ppm	ASTM D5185(m)		<1	2	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	▲ 76	57	---
Sodium	ppm	ASTM D5185(m)		0	<1	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.54	0.60	---

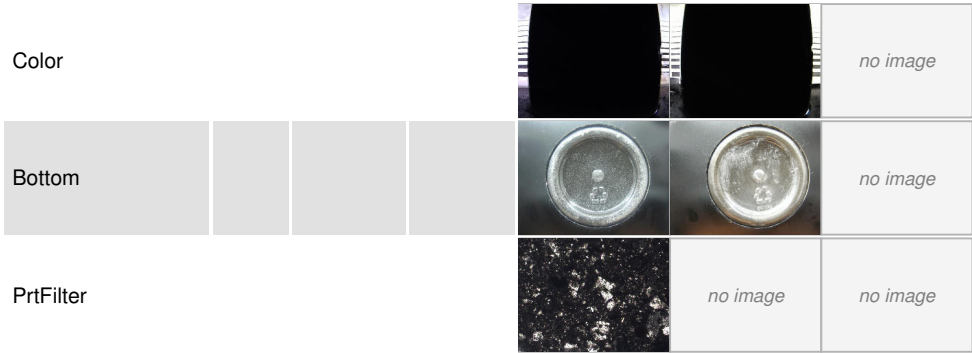
OIL ANALYSIS REPORT



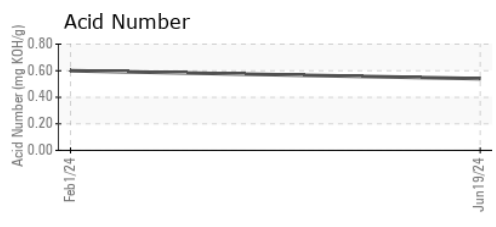
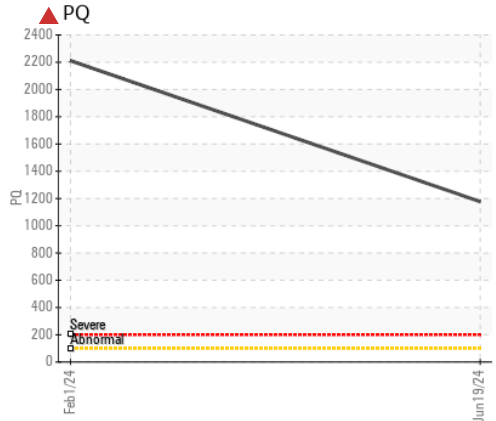
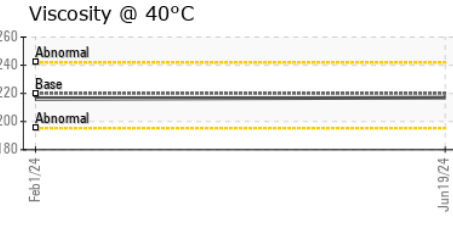
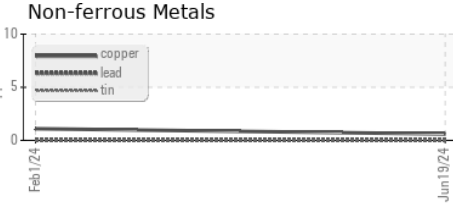
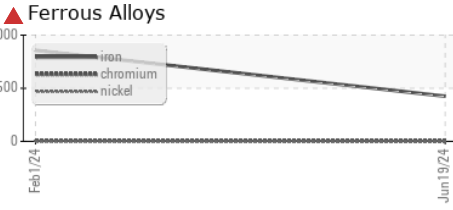
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	▲ MODER	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	LIGHT	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	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 D7279(m)	220	217	216	---

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. : WC0951879 **Received** : 21 Jun 2024
Lab Number : 02643501 **Tested** : 26 Jun 2024
Unique Number : 5801040 **Diagnosed** : 26 Jun 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, 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.