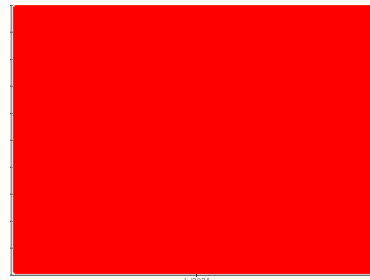




PROBLEM SUMMARY

Sample Rating Trend



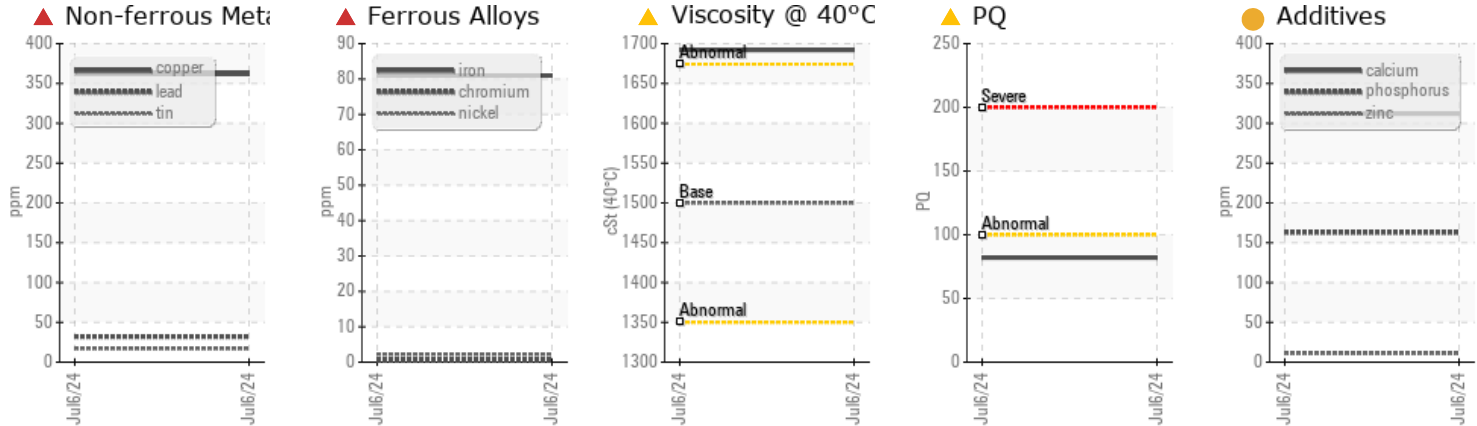
WEAR



Machine Id
K2 P1 SW
Component
Bearing

Fluid
MOBIL MOBILGEAR SHC 1500 (40 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. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status	ASTM	Value	SEVERE	---	---
PQ	ASTM D8184*		▲ 82	---	---
Iron	ppm ASTM D5185(m)	>20	▲ 81	---	---
Lead	ppm ASTM D5185(m)	>20	▲ 32	---	---
Copper	ppm ASTM D5185(m)	>20	▲ 362	---	---
White Metal	scalar Visual*	NONE	▲ LIGHT	---	---
Silt	scalar Visual*	NONE	▲ MODER	---	---
Visc @ 40°C	cSt ASTM D7279(m)	1500	▲ 1692	---	---
PrtFilter				no image	no image

Customer Id: CARDUN
Sample No.: WC0959792
Lab Number: 02647702
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

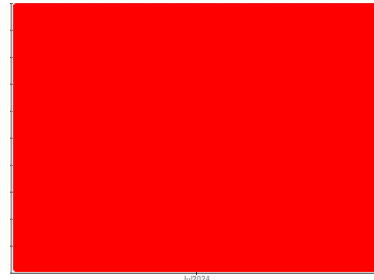
Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Breathers	---	---	?	The air breather requires service. If unrated, 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 Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.
Check For Visual Metal	---	---	?	We advise that you check for visible metal particles in the oil.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
K2 P1 SW
Component
Bearing

Fluid
MOBIL MOBILGEAR SHC 1500 (40 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. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

▲ Wear

Copper and iron ppm levels are severe. PQ PQ levels are abnormal. Lead ppm levels are abnormal. Light concentration of visible metal present. Bearing wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

▲ Contamination

Calcium and/or magnesium levels higher than normal indicating possible lime contamination, advise investigate. There is a moderate amount of visible silt present in the sample. The water content is negligible.

▲ Fluid Condition

The viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. 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		WC0959792	---	---
Sample Date	Client Info		06 Jul 2024	---	---
Machine Age	mths	Client Info	0	---	---
Oil Age	mths	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

WEAR METALS	method	limit/base	current	history1	history2
PQ	ASTM D8184*		▲ 82	---	---
Iron	ppm	ASTM D5185(m) >20	▲ 81	---	---
Chromium	ppm	ASTM D5185(m) >20	<1	---	---
Nickel	ppm	ASTM D5185(m) >20	2	---	---
Titanium	ppm	ASTM D5185(m)	2	---	---
Silver	ppm	ASTM D5185(m)	<1	---	---
Aluminum	ppm	ASTM D5185(m) >20	1	---	---
Lead	ppm	ASTM D5185(m) >20	▲ 32	---	---
Copper	ppm	ASTM D5185(m) >20	▲ 362	---	---
Tin	ppm	ASTM D5185(m) >20	17	---	---
Antimony	ppm	ASTM D5185(m)	<1	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

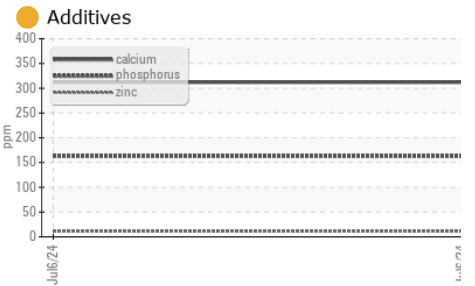
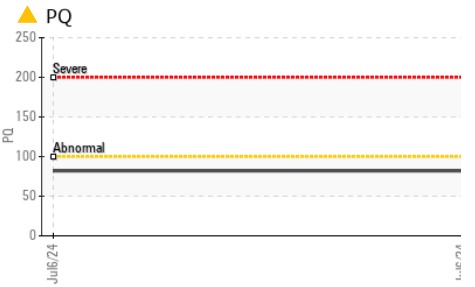
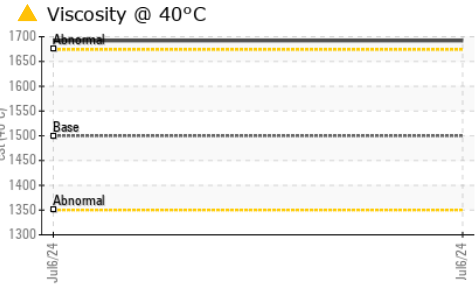
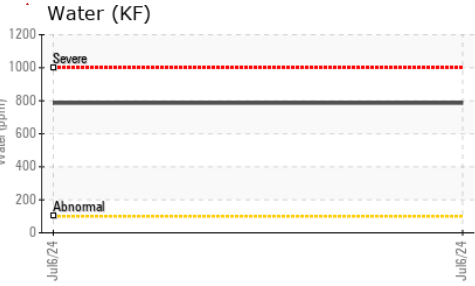
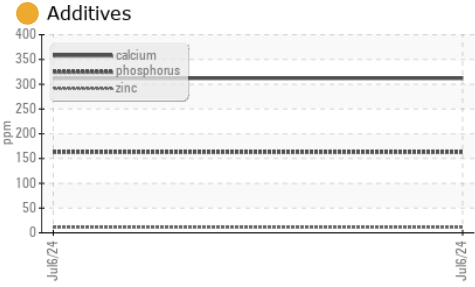
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	19	---	---
Barium	ppm	ASTM D5185(m)	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	---	---
Manganese	ppm	ASTM D5185(m)	1	---	---
Magnesium	ppm	ASTM D5185(m)	● 172	---	---
Calcium	ppm	ASTM D5185(m)	● 312	---	---
Phosphorus	ppm	ASTM D5185(m)	163	---	---
Zinc	ppm	ASTM D5185(m)	11	---	---
Sulfur	ppm	ASTM D5185(m)	2678	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	10	---	---
Sodium	ppm	ASTM D5185(m)	2	---	---
Potassium	ppm	ASTM D5185(m) >20	0	---	---
Water	%	ASTM D6304* >2	0.078	---	---
ppm Water	ppm	ASTM D6304*	786	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.73	---	---



OIL ANALYSIS REPORT



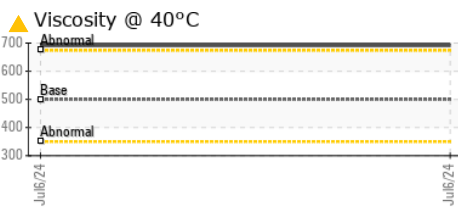
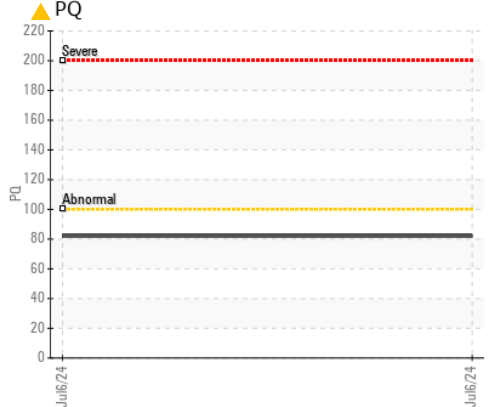
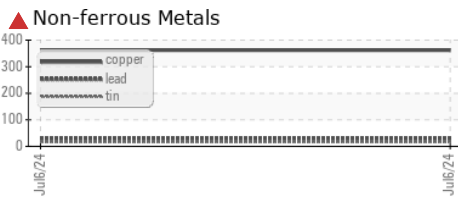
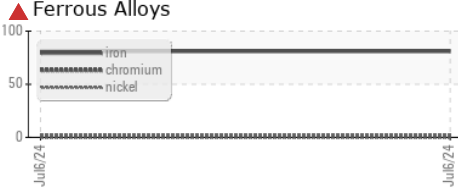
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	▲ LIGHT	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	▲ MODER	---
Debris	scalar	Visual*	NONE	LIGHT	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	WGOIL	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>2	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	1500	▲ 1692	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image
PrtFilter				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Carmeuse Lime (Canada) Ltd Dundas Operations**
Sample No. : WC0959792 **Received** : 12 Jul 2024 **R.R. #2, 600 5 Hwy W**
Lab Number : 02647702 **Tested** : 16 Jul 2024 **Dundas, ON**
Unique Number : 5813254 **Diagnosed** : 16 Jul 2024 - Kevin Marson **CA L9H 5E2**
Test Package : IND 2 (Additional Tests: Bottom, BottomAnalysis, FILTERPATCH, KF, TAN Mar) **Contact: Harsh Murria**
To discuss this sample report, contact Customer Service at 1-800-268-2131. **harsh.murria@carmeuse.com**
Test denoted () outside scope of accreditation, (m) method modified, (e) tested at external lab.* **T: (905)628-7651**
Validity of results and interpretation are based on the sample and information as supplied. **F:**