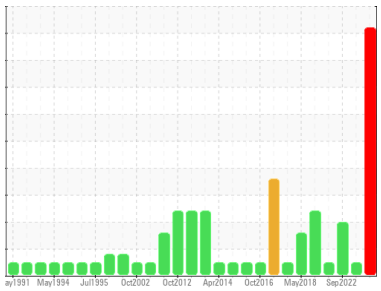
PROBLEM SUMMARY

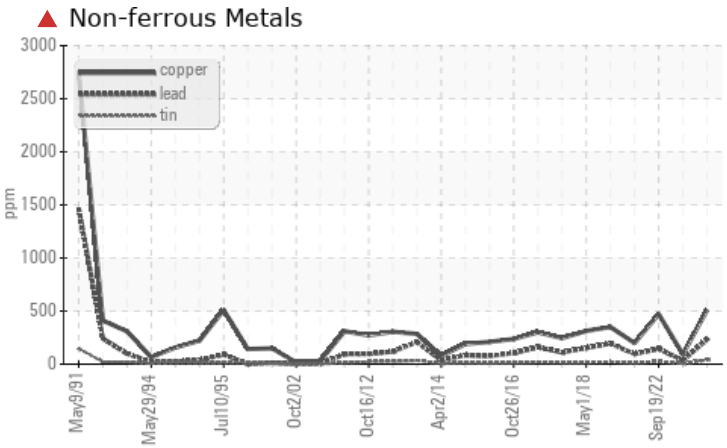
Sample Rating Trend

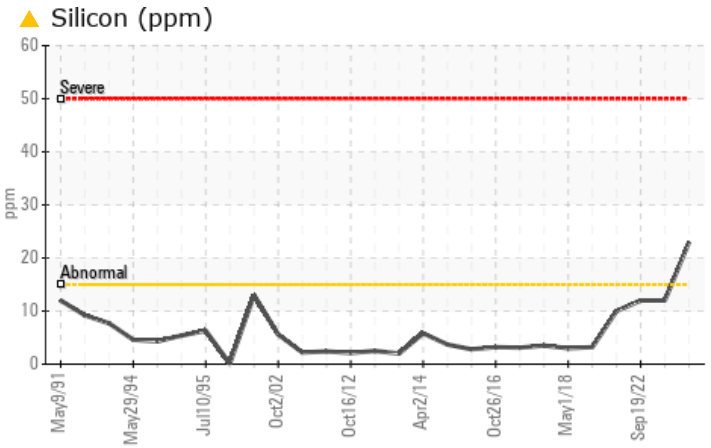


WEAR

Area
Lime Kilns Route #2 [102299]
Machine Id
KVS 12.5 102299 K1 P2 NE Bearing
Component
Bearing
Fluid
MOBIL MOBILGEAR SHC 1500 (40 LTR)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

Check seals and/or filters for points of contaminant entry. 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.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	ABNORMAL
Lead	ppm	ASTM D5185(m)	>150	▲ **233**	35	145
Copper	ppm	ASTM D5185(m)	>250	▲ **509**	93	▲ 472
Tin	ppm	ASTM D5185(m)	>20	▲ **39**	6	▲ 26
Silicon	ppm	ASTM D5185(m)	>15	▲ **23**	12	12

Customer Id: BEAING
Sample No.: WC0890805
Lab Number: 02630259
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 Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS

NORMAL

17 Nov 2023 Diag: Kevin Marson
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

WEAR

19 Sep 2022 Diag: Kevin Marson
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.Copper and tin ppm levels are abnormal. Antimony ppm levels are noted. Bearing wear is indicated. 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

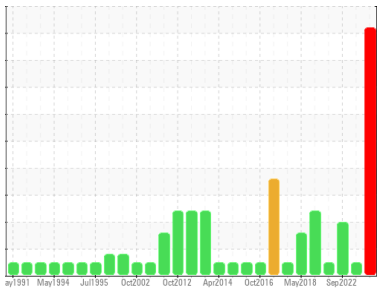
NORMAL

16 Jun 2020 Diag: Kevin Marson
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
Lime Kilns Route #2 [102299]
Machine Id
KVS 12.5 102299 K1 P2 NE Bearing
Component
Bearing
Fluid
MOBIL MOBILGEAR SHC 1500 (40 LTR)

DIAGNOSIS

Recommendation
Check seals and/or filters for points of contaminant entry. 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
Copper ppm levels are severe. Lead and tin ppm levels are abnormal. Bearing wear is indicated.

Contamination
Elemental level of silicon (Si) above normal indicating ingress of seal material and/or dirt.

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		**WC0890805**	WC0868750	WC0636159
Sample Date		Client Info		**04 Apr 2024**	17 Nov 2023	19 Sep 2022
Machine Age	yrs	Client Info		**0**	0	0
Oil Age	yrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**SEVERE**	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>2	**NEG**	NEG	NEG

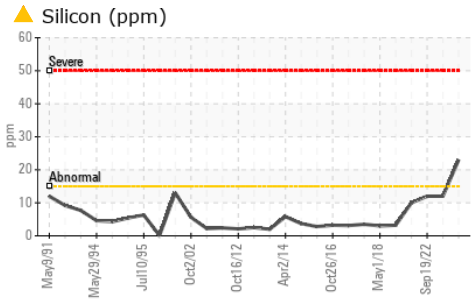
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		**3**	0	3
Iron	ppm	ASTM D5185(m)	>75	**28**	12	28
Chromium	ppm	ASTM D5185(m)	>20	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>20	**2**	<1	1
Titanium	ppm	ASTM D5185(m)		**5**	4	4
Silver	ppm	ASTM D5185(m)		**0**	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	**<1**	1	<1
Lead	ppm	ASTM D5185(m)	>150	▲ **233**	35	145
Copper	ppm	ASTM D5185(m)	>250	▲ **509**	93	▲ 472
Tin	ppm	ASTM D5185(m)	>20	▲ **39**	6	▲ 26
Antimony	ppm	ASTM D5185(m)		**7**	<1	● 4
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
Beryllium	ppm	ASTM D5185(m)		**0**	0	0
Cadmium	ppm	ASTM D5185(m)		**0**	0	0

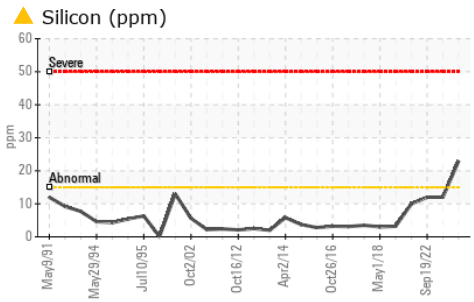
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		**20**	27	21
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**3**	3	4
Manganese	ppm	ASTM D5185(m)		**0**	0	<1
Magnesium	ppm	ASTM D5185(m)		**7**	6	9
Calcium	ppm	ASTM D5185(m)		**77**	28	45
Phosphorus	ppm	ASTM D5185(m)		**152**	200	186
Zinc	ppm	ASTM D5185(m)		**21**	8	16
Sulfur	ppm	ASTM D5185(m)		**2176**	4128	2712
Lithium	ppm	ASTM D5185(m)		**<1**	<1	<1

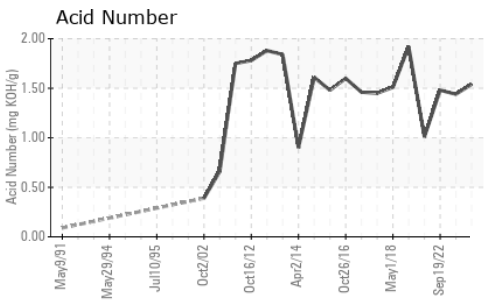
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	▲ **23**	12	12
Sodium	ppm	ASTM D5185(m)		**<1**	1	1
Potassium	ppm	ASTM D5185(m)	>20	**0**	0	<1

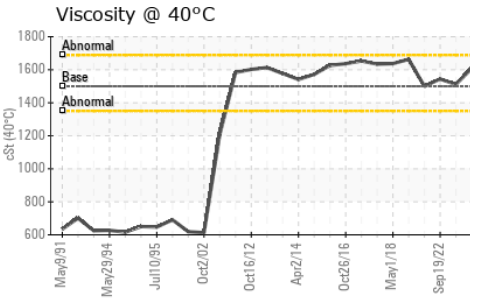
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**1.54**	1.44	1.48

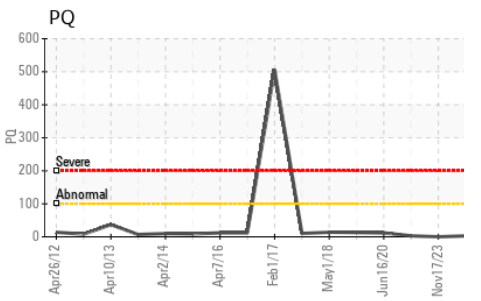
OIL ANALYSIS REPORT







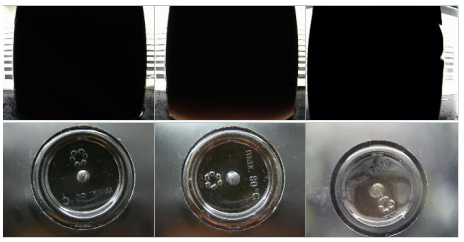




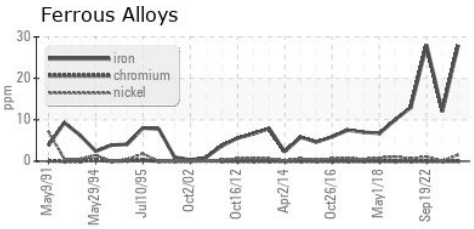
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Precipitate	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silt	scalar	Visual*	NONE	**NONE**	NONE	NONE
Debris	scalar	Visual*	NONE	**VLITE**	VLITE	NONE
Sand/Dirt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

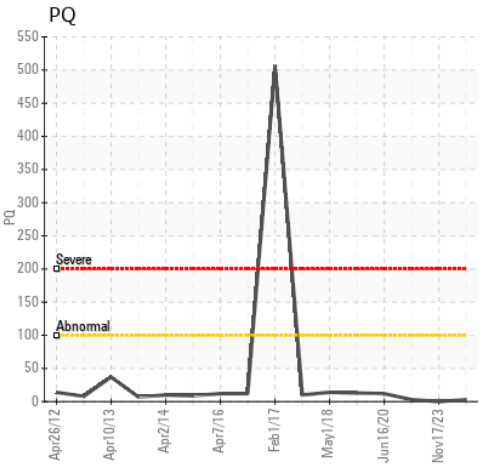
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	1500	**1608**	1511	1544

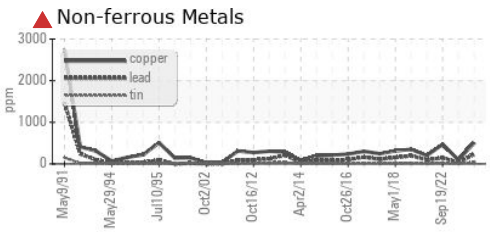
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

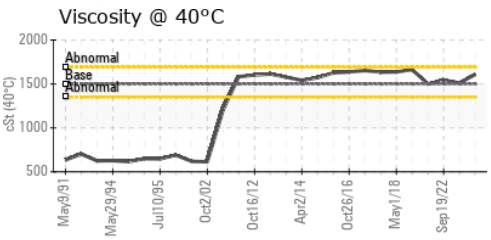


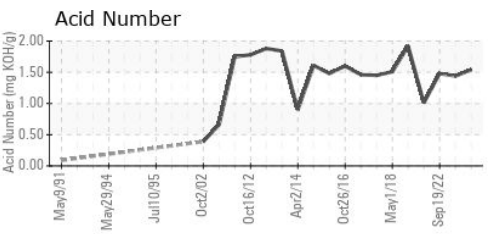
GRAPHS











ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0890805 **Received** : 19 Apr 2024
Lab Number : 02630259 **Tested** : 19 Apr 2024
Unique Number : 5763391 **Diagnosed** : 22 Apr 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: TAN Man)

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.

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