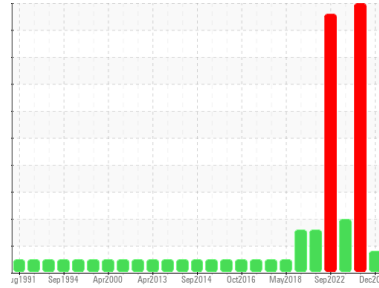




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**Lime Kilns Route #2**  
 Machine Id  
**KVS 12.6 102298 K1 P2 NW Bearing**  
 Component  
**Bearing**  
 Fluid  
**MOBIL MOBILGEAR SHC 1500 (40 LTR)**

## DIAGNOSIS

### Recommendation

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.

### Wear

Copper ppm levels are abnormal. Bearing wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

### 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		<b>WC0877635</b>	WC0868749	WC0749156
Sample Date	Client Info		<b>12 Dec 2023</b>	17 Nov 2023	10 Apr 2023
Machine Age	yrs	Client Info	<b>0</b>	0	0
Oil Age	yrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	SEVERE	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	46	3
Iron	ppm	ASTM D5185(m) >75	<b>16</b>	57	26
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	2	1
Titanium	ppm	ASTM D5185(m)	<b>3</b>	4	4
Silver	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	1	<1
Lead	ppm	ASTM D5185(m) >150	<b>93</b>	▲ 239	138
Copper	ppm	ASTM D5185(m) >250	▲ <b>392</b>	■ 616	▲ 485
Tin	ppm	ASTM D5185(m) >20	<b>19</b>	▲ 41	▲ 25
Antimony	ppm	ASTM D5185(m)	<b>2</b>	7	▲ 4
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>18</b>	19	22
Barium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	<b>3</b>	4	4
Manganese	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	<b>7</b>	10	8
Calcium	ppm	ASTM D5185(m)	<b>20</b>	100	52
Phosphorus	ppm	ASTM D5185(m)	<b>155</b>	183	195
Zinc	ppm	ASTM D5185(m)	<b>14</b>	18	18
Sulfur	ppm	ASTM D5185(m)	<b>2577</b>	2544	2901
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>12</b>	▲ 17	12
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	1	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	1	<1

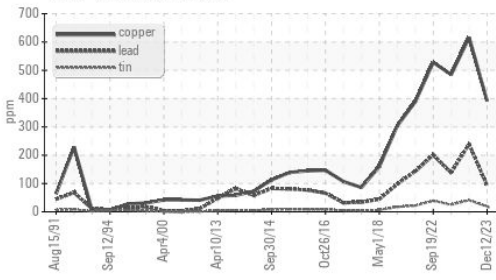
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	<b>1.20</b>	▲ 1.81	1.40

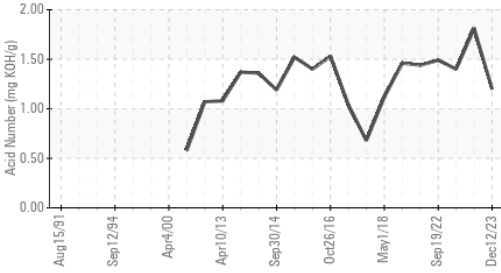


# OIL ANALYSIS REPORT

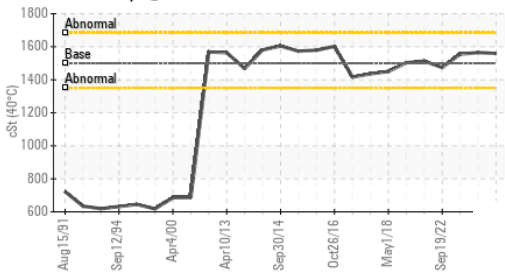
## Non-ferrous Metals



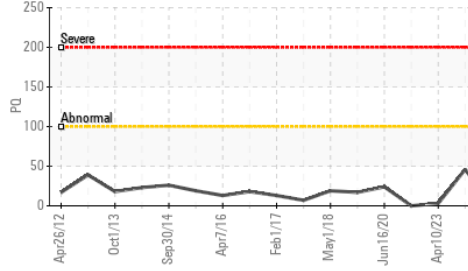
## Acid Number



## Viscosity @ 40°C



## PQ



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	LIGHT	VLITE
Debris	scalar	Visual*	NONE	LIGHT	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	1500	1565	1555

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

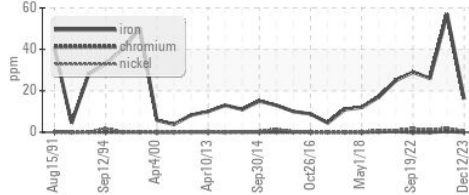


Bottom

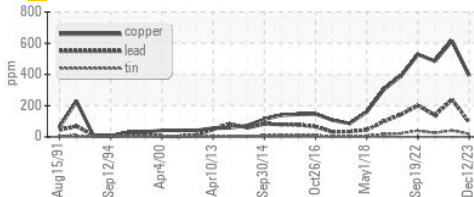


## GRAPHS

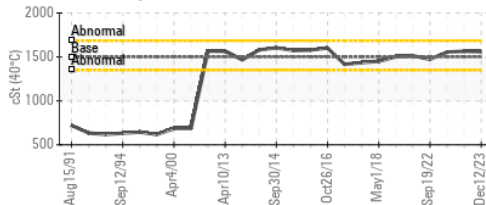
### Ferrous Alloys



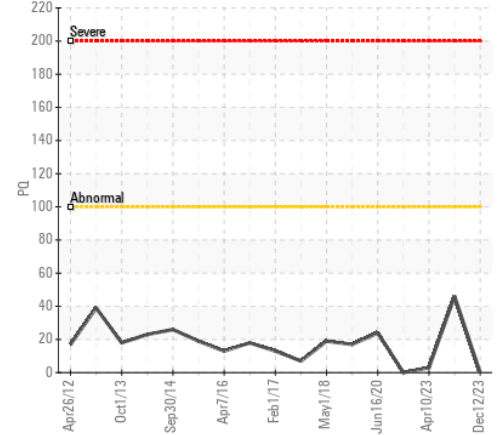
### Non-ferrous Metals



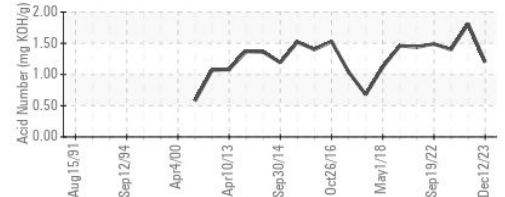
### Viscosity @ 40°C



### PQ



### Acid Number



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
 Sample No. : WC0877635  
 Lab Number : 02609134  
 Unique Number : 5710220  
 Test Package : IND 2

**CARMEUSE LIME**  
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 INGERSOLL, ON  
 CA N5C 3K5  
 Contact: Jeff Geddes  
 jeff.geddes@carmeusena.com  
 T: (519)423-6283  
 F: (519)423-6568

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.