



# PROBLEM SUMMARY

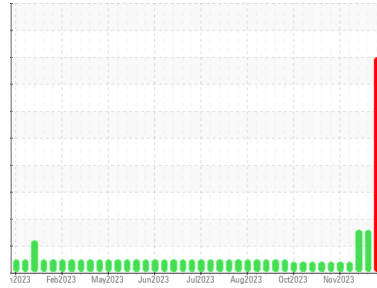
Sample Rating Trend

ISO

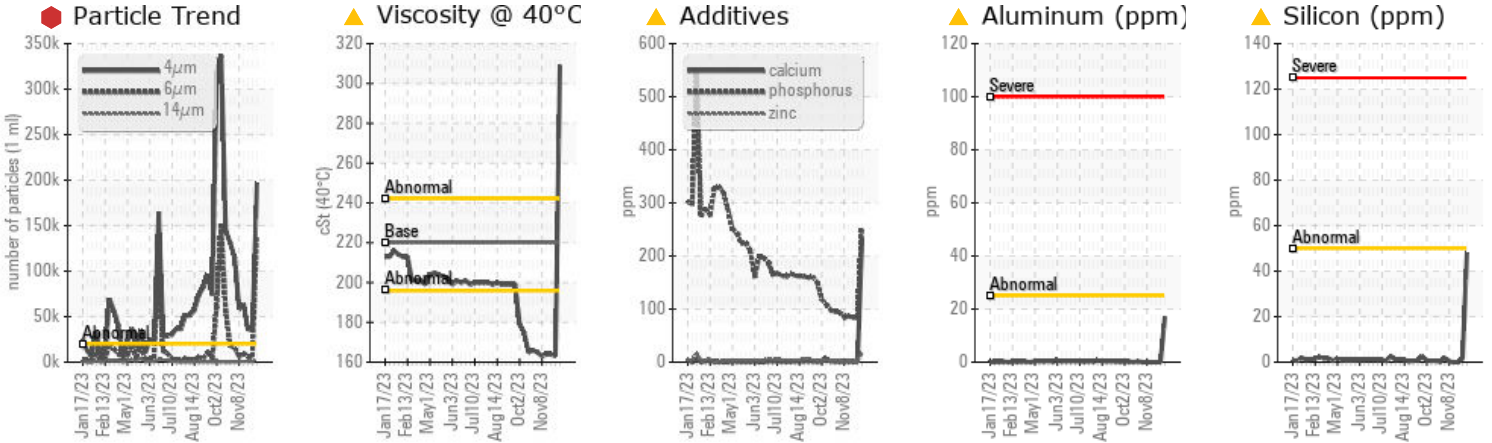


Area  
**7**  
Machine Id  
**7-3-260 Roll Press**

Component  
**Gearbox**  
Fluid  
**MOBIL MOBILGEAR 600 XP 220 (2500 LTR)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

Due to this condition we recommend the following action... We advise an early resample to confirm this situation. NOTE: The current sample results do not match this units historical trend, indicating the sample may not be from this component/unit.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	ABNORMAL
Aluminum	ppm	ASTM D5185(m)	>25	▲ 17	0	0
Calcium	ppm	ASTM D5185(m)		▲ 234	<1	<1
Phosphorus	ppm	ASTM D5185(m)		▲ 255	84	84
Zinc	ppm	ASTM D5185(m)		▲ 18	2	2
Silicon	ppm	ASTM D5185(m)	>50	▲ 48	2	0
Particles >4µm		ASTM D7647	>20000	● 196669	▲ 39011	▲ 35125
Particles >6µm		ASTM D7647	>5000	● 138808	▲ 6307	▲ 5525
Particles >14µm		ASTM D7647	>640	▲ 4119	184	437
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● 25/24/19	▲ 22/20/15	▲ 22/20/16
Visc @ 40°C	cSt	ASTM D7279(m)	220	▲ 309	▲ 163	▲ 164

Customer Id: STMBOW  
Sample No.: WC0883476  
Lab Number: 02601337  
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](mailto:Kevin.Marson@wearcheck.com)

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

**RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Resample	---	---	?	We advise an early resample to confirm this situation.
Alert	---	---	?	NOTE: The current sample results do not match this units historical trend, indicating the sample may not be from this component/unit.

**HISTORICAL DIAGNOSIS**

**28 Nov 2023 Diag: Kevin Marson**

**VISCOSITY**



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 150 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



**20 Nov 2023 Diag: Kevin Marson**

**VISCOSITY**



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 150 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



**13 Nov 2023 Diag: Kevin Marson**

**VISCOSITY**



Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within ISO 150 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report





# OIL ANALYSIS REPORT

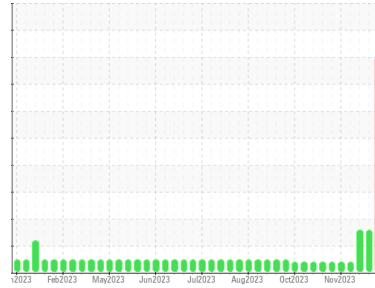
Sample Rating Trend

ISO



Area  
**7**  
Machine Id  
**7-3-260 Roll Press**

Component  
**Gearbox**  
Fluid  
**MOBIL MOBILGEAR 600 XP 220 (2500 LTR)**



## DIAGNOSIS

### Recommendation

Due to this condition we recommend the following action... We advise an early resample to confirm this situation. NOTE: The current sample results do not match this units historical trend, indicating the sample may not be from this component/unit.

### Wear

Aluminum ppm levels are marginal. Thrust washer and/or bearing/bushing wear is indicated.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 90W140 range, advise investigate. The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0883476</b>	WC0869915	WC0869913
Sample Date	Client Info		<b>04 Dec 2023</b>	28 Nov 2023	20 Nov 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>SEVERE</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	<b>51</b>	5	5
Chromium	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>▲ 17</b>	0	0
Lead	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>200	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>25	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
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>2</b>	<1	<1
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>8</b>	0	0
Calcium	ppm	ASTM D5185(m)		<b>▲ 234</b>	<1	<1
Phosphorus	ppm	ASTM D5185(m)		<b>▲ 255</b>	84	84
Zinc	ppm	ASTM D5185(m)		<b>▲ 18</b>	2	2
Sulfur	ppm	ASTM D5185(m)		<b>8712</b>	7914	8055
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

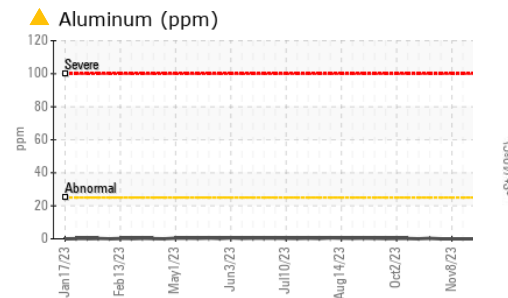
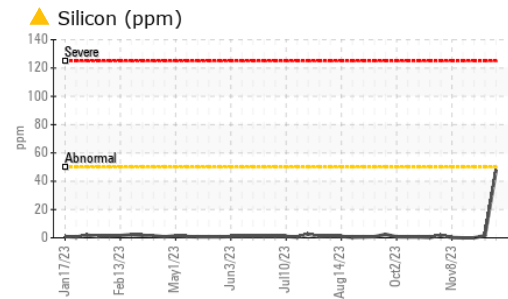
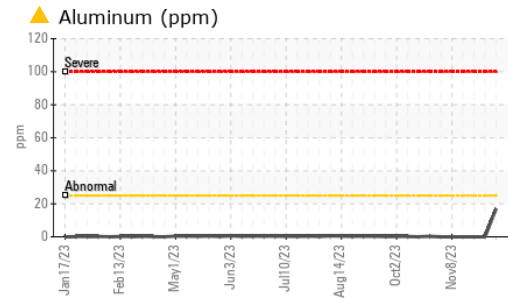
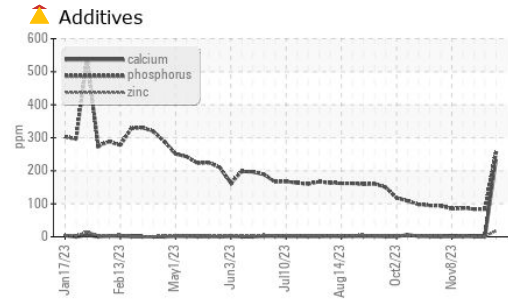
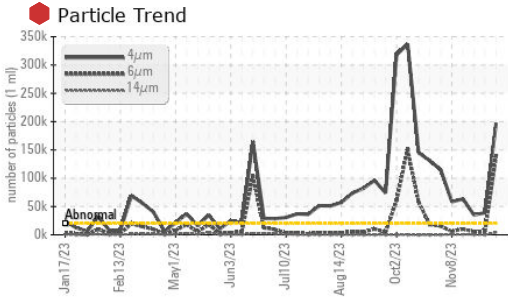
## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>50	<b>▲ 48</b>	2	0
Sodium	ppm	ASTM D5185(m)		<b>1</b>	<1	0
Potassium	ppm	ASTM D5185(m)	>20	<b>6</b>	0	0

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>● 196669</b>	▲ 39011	▲ 35125
Particles >6µm	ASTM D7647	>5000	<b>● 138808</b>	▲ 6307	▲ 5525
Particles >14µm	ASTM D7647	>640	<b>▲ 4119</b>	184	437
Particles >21µm	ASTM D7647	>160	<b>95</b>	68	115
Particles >38µm	ASTM D7647	>40	<b>1</b>	3	4
Particles >71µm	ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>● 25/24/19</b>	▲ 22/20/15	▲ 22/20/16

# OIL ANALYSIS REPORT



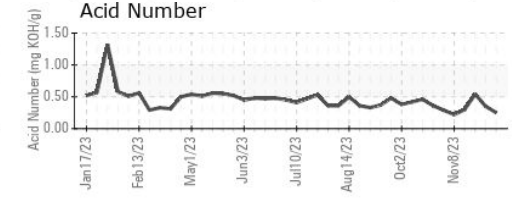
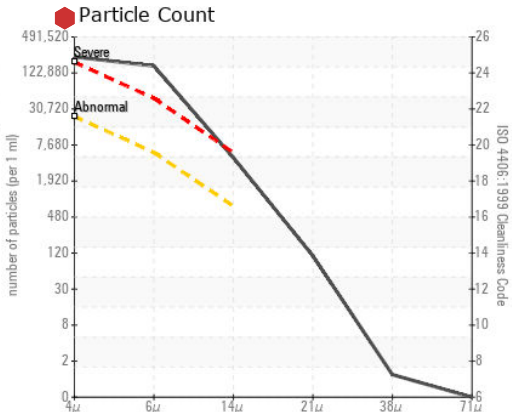
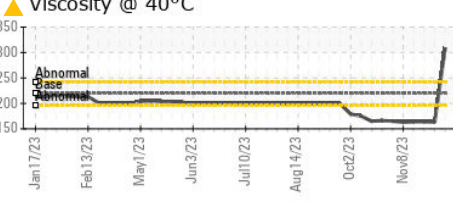
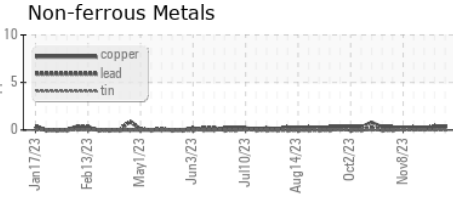
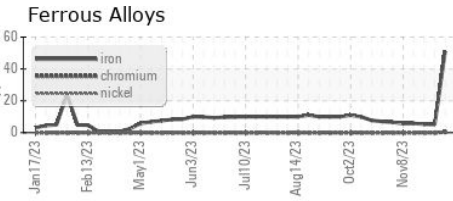
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>0.25</b>	0.35	0.54

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	<b>▲ 309</b>	▲ 163	▲ 164

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0883476 **Received** : 06 Dec 2023  
**Lab Number** : **02601337** **Diagnosed** : 07 Dec 2023  
**Unique Number** : 5694422 **Diagnostician** : 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.

**ST. MARYS CEMENT CO.**  
 400 BOWMANVILLE AVENUE  
 BOWMANVILLE, ON  
 CA L1C 7B5  
 Contact: Carlos Barberi  
 carlos.barberi@vcimentos.com  
 T: (905)623-3341  
 F: (905)623-4695