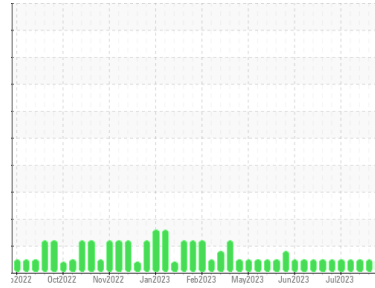




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area

**3**

Machine Id

**3-101-MG Primary**

Component

**Crusher**

Fluid

**MOBIL MOBILGEAR 600 XP 320 (2900 LTR)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

#### Fluid Condition

The condition of the oil is acceptable for the time in service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0842783</b>	WC0842651	WC0818126
Sample Date	Client Info		<b>08 Aug 2023</b>	01 Aug 2023	24 Jul 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>NORMAL</b>	NORMAL	NORMAL

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>200	<b>58</b>	55	52
Chromium	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>2</b>	2	2
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>50	<b>36</b>	33	33
Lead	ppm	ASTM D5185(m)	>100	<b>13</b>	12	12
Copper	ppm	ASTM D5185(m)	>200	<b>48</b>	46	44
Tin	ppm	ASTM D5185(m)	>15	<b>5</b>	5	5
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)	57	<b>9</b>	9	9
Barium	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	2.0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	0.0	<b>17</b>	16	16
Calcium	ppm	ASTM D5185(m)	42	<b>356</b>	328	318
Phosphorus	ppm	ASTM D5185(m)	399	<b>315</b>	316	315
Zinc	ppm	ASTM D5185(m)	13	<b>4</b>	3	4
Sulfur	ppm	ASTM D5185(m)	13649	<b>10163</b>	10110	10100
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

### CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>100	<b>101</b>	96	91
Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>15</b>	14	14

### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>215743</b>	164239	170881
Particles >6µm	ASTM D7647	>320000	<b>197641</b>	152074	157562
Particles >14µm	ASTM D7647	>160000	<b>100313</b>	83043	83327
Particles >21µm	ASTM D7647	>40000	<b>38465</b>	36468	34364
Particles >38µm	ASTM D7647	>10000	<b>24</b>	35	25
Particles >71µm	ASTM D7647	>2500	<b>1</b>	0	1
Oil Cleanliness	ISO 4406 (c)	>25/24	<b>25/24</b>	24/24	24/24

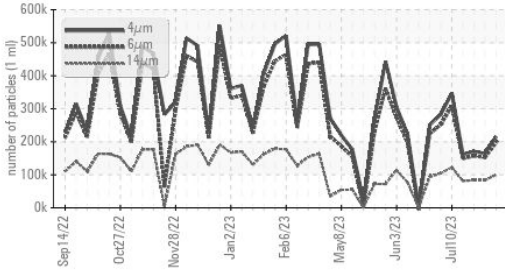
### FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.68	<b>0.28</b>	0.50	0.58

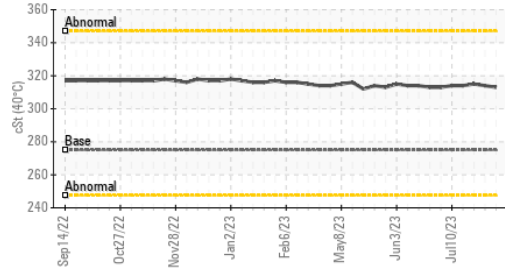


# OIL ANALYSIS REPORT

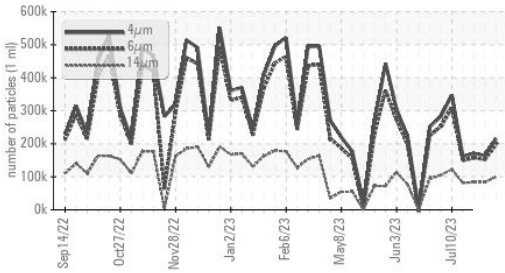
Particle Trend



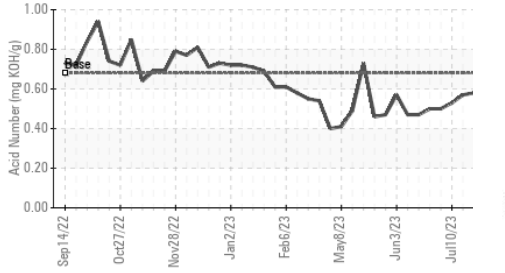
Viscosity @ 40°C



Particle Trend



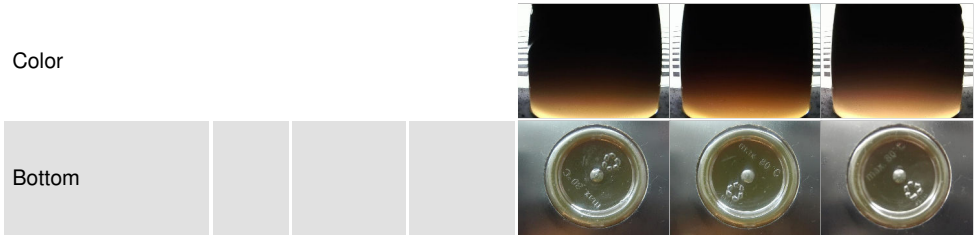
Acid Number



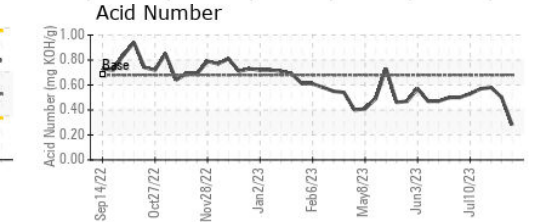
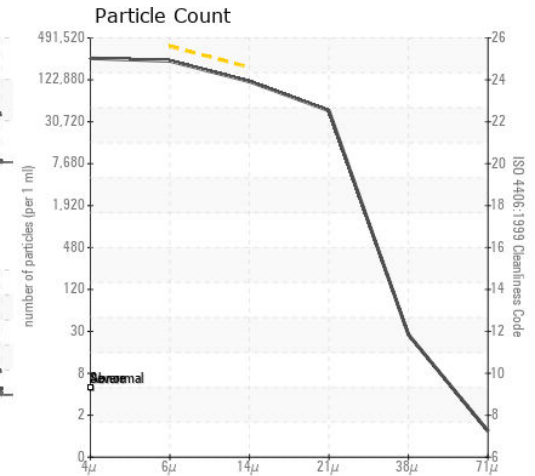
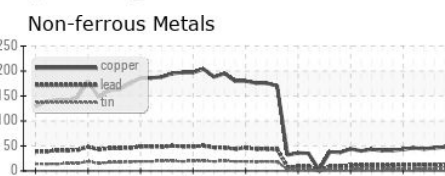
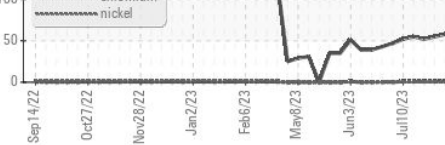
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	275	313	314

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. : WC0842783  
 Lab Number : 02576548  
 Unique Number : 5629608  
 Test Package : IND 2

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

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.