



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area

**5**

Machine Id

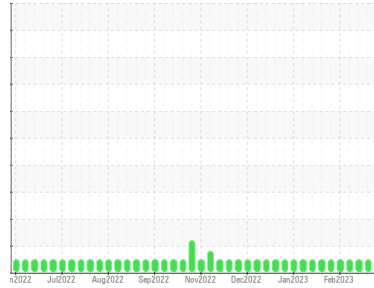
**5-3-241 Pump Station for Atox GBOX Lube**

Component

**Gearbox**

Fluid

**MOBIL MOBILGEAR 600 XP 320 (4400 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0794264</b>	WC0818144	WC0794263
Sample Date	Client Info		<b>23 May 2023</b>	15 May 2023	08 May 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>22</b>	27	24
Chromium	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>6</b>	9	7
Lead	ppm	ASTM D5185(m)	>100	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>200	<b>0</b>	0	0
Tin	ppm	ASTM D5185(m)	>25	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	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>2</b>	2	2
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>3</b>	4	3
Calcium	ppm	ASTM D5185(m)	42	<b>76</b>	112	93
Phosphorus	ppm	ASTM D5185(m)	399	<b>302</b>	292	297
Zinc	ppm	ASTM D5185(m)	13	<b>15</b>	15	16
Sulfur	ppm	ASTM D5185(m)	13649	<b>9315</b>	8878	9178
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>15</b>	26	20
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	4	3

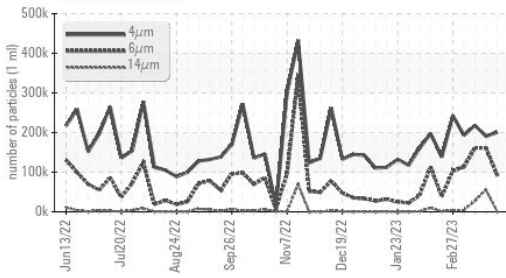
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>200462</b>	190649	218164
Particles >6µm	ASTM D7647	>320000	<b>93395</b>	161346	160856
Particles >14µm	ASTM D7647	>160000	<b>764</b>	56050	27372
Particles >21µm	ASTM D7647	>40000	<b>67</b>	16995	5236
Particles >38µm	ASTM D7647	>10000	<b>2</b>	178	18
Particles >71µm	ASTM D7647	>2500	<b>0</b>	6	0
Oil Cleanliness	ISO 4406 (c)	>--/25/24	<b>25/24/17</b>	25/25/23	25/25/22

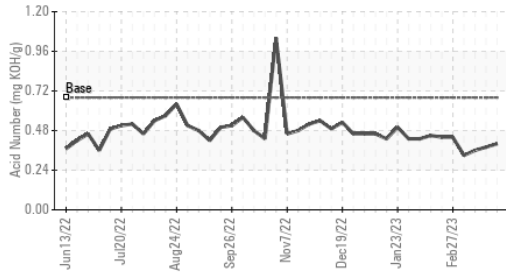
## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.68	<b>0.40</b>	0.38	0.36

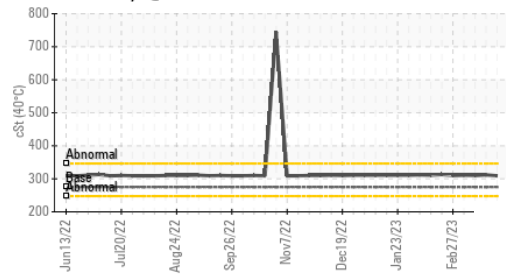
### Particle Trend



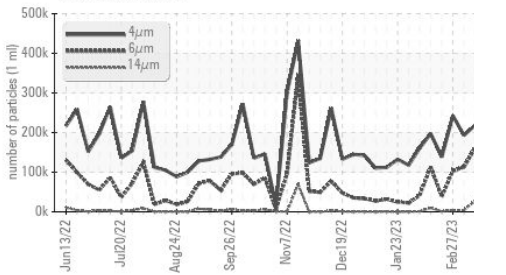
### Acid Number



### Viscosity @ 40°C



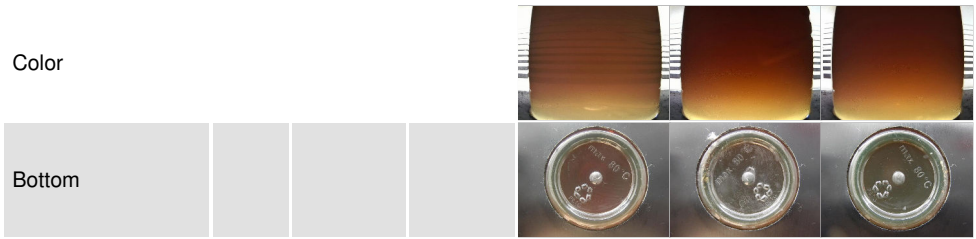
### Particle Trend



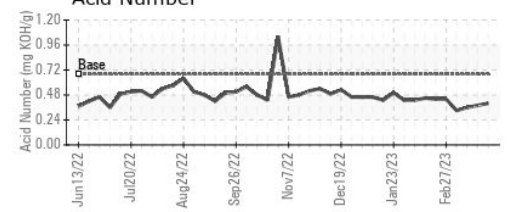
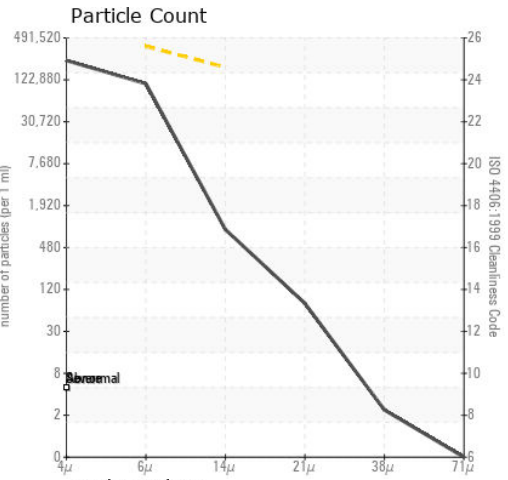
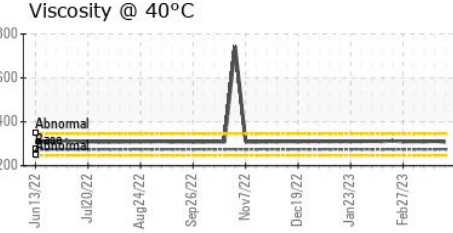
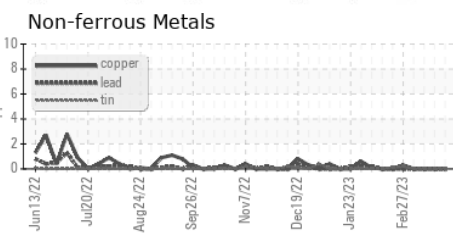
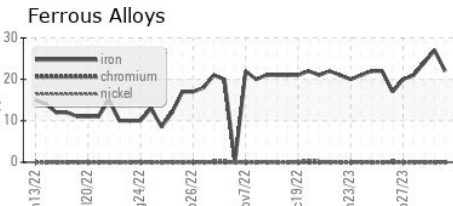
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	275	309	312

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.** : WC0794264 **Received** : 25 May 2023  
**Lab Number** : 02559633 **Diagnosed** : 26 May 2023  
**Unique Number** : 5580673 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**ST. MARYS CEMENT CO.**  
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 T: (905)440-5874  
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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.