



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area

**5**

Machine Id

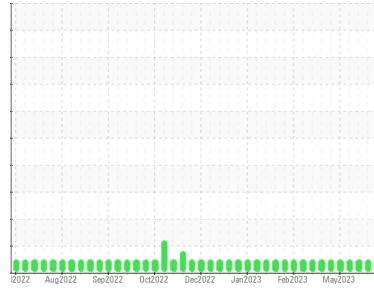
## 5-3-241 Pump Station for Atox GBOX Lube

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>WC0794265</b>	WC0794261	WC0794262
Sample Date	Client Info	<b>12 Jun 2023</b>	05 Jun 2023	29 May 2023
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	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>25</b>	25	21
Chromium	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	0	0
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>7</b>	7	5
Lead	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185(m)	>200	<b>0</b>	<1	0
Tin	ppm	ASTM D5185(m)	>25	<b>0</b>	<1	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)	57	<b>1</b>	1	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>4</b>	3	3
Calcium	ppm	ASTM D5185(m)	42	<b>95</b>	85	76
Phosphorus	ppm	ASTM D5185(m)	399	<b>297</b>	296	291
Zinc	ppm	ASTM D5185(m)	13	<b>16</b>	16	15
Sulfur	ppm	ASTM D5185(m)	13649	<b>9003</b>	8689	8672
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>20</b>	21	16
Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	2	2

### FLUID CLEANLINESS

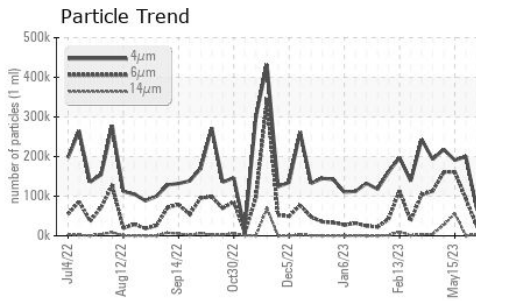
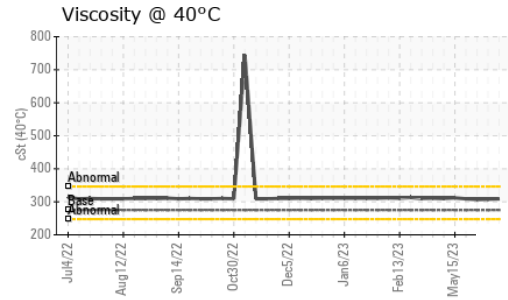
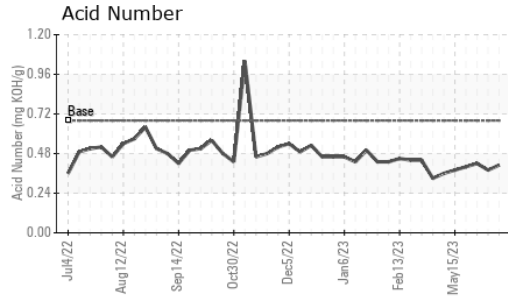
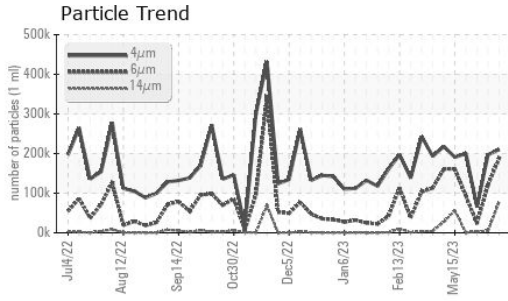
method	limit/base	current	history1	history2		
Particles >4µm	ASTM D7647			<b>209996</b>	197308	65220
Particles >6µm	ASTM D7647	>320000		<b>187418</b>	120705	23638
Particles >14µm	ASTM D7647	>160000		<b>77472</b>	4861	2858
Particles >21µm	ASTM D7647	>40000		<b>20732</b>	303	946
Particles >38µm	ASTM D7647	>10000		<b>14</b>	1	112
Particles >71µm	ASTM D7647	>2500		<b>1</b>	0	70
Oil Cleanliness	ISO 4406 (c)	>--/25/24		<b>25/25/23</b>	25/24/19	23/22/19

### FLUID DEGRADATION

method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D974*	0.68	<b>0.41</b>	0.38	0.42



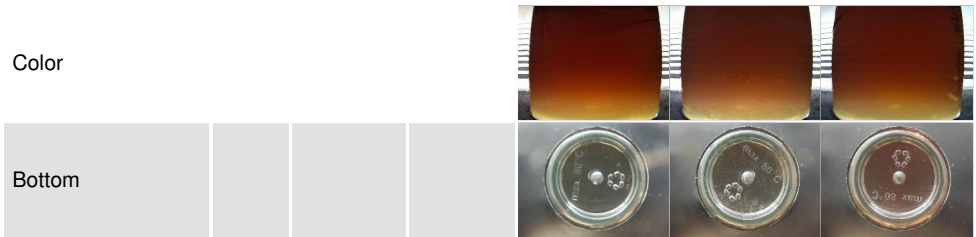
# OIL ANALYSIS REPORT



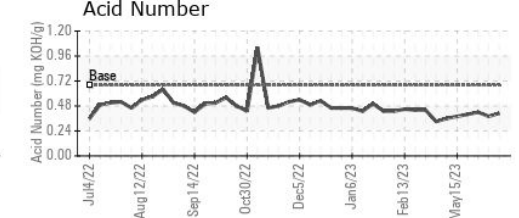
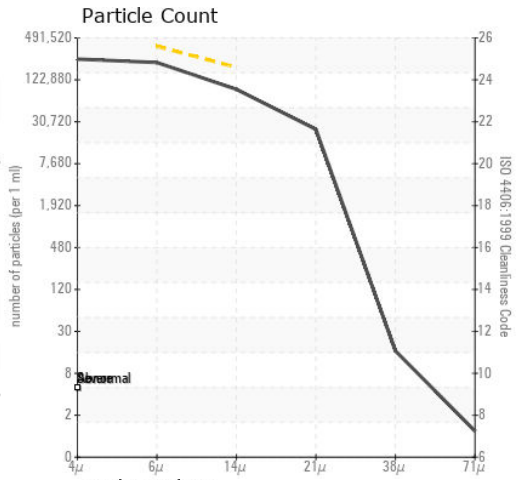
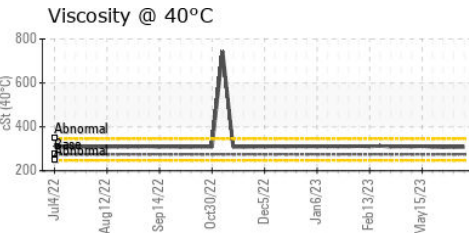
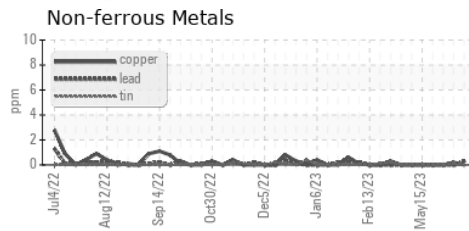
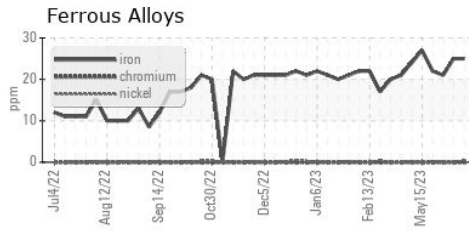
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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	308

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.** : WC0794265 **Received** : 15 Jun 2023  
**Lab Number** : 02564503 **Diagnosed** : 16 Jun 2023  
**Unique Number** : 5593544 **Diagnostician** : Wes Davis  
**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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