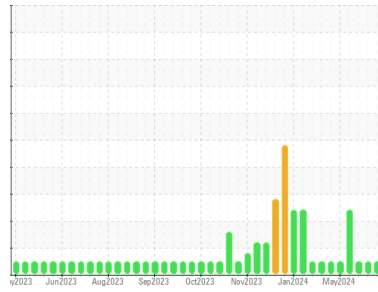




# OIL ANALYSIS REPORT

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>WC0902184</b>	WC0912464	WC0902027
Sample Date	Client Info	<b>08 Jul 2024</b>	25 Jun 2024	17 Jun 2024
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

## 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>6</b>	5	4
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>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >25	<b>1</b>	<1	1
Lead	ppm	ASTM D5185(m) >100	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >200	<b>6</b>	5	4
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) 57	<b>10</b>	8	10
Barium	ppm	ASTM D5185(m) 0.0	<b>&lt;1</b>	<1	1
Molybdenum	ppm	ASTM D5185(m) 2.0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m) 0.0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185(m) 0.0	<b>2</b>	1	2
Calcium	ppm	ASTM D5185(m) 42	<b>15</b>	14	16
Phosphorus	ppm	ASTM D5185(m) 399	<b>320</b>	305	303
Zinc	ppm	ASTM D5185(m) 13	<b>10</b>	7	8
Sulfur	ppm	ASTM D5185(m) 13649	<b>15501</b>	14835	14943
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

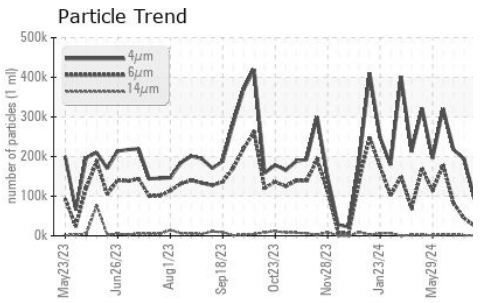
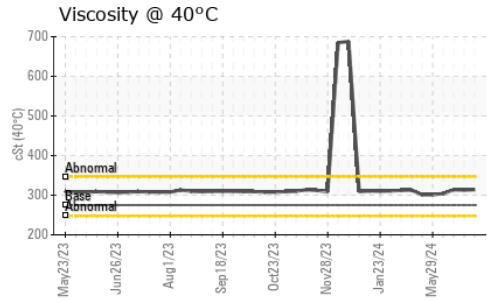
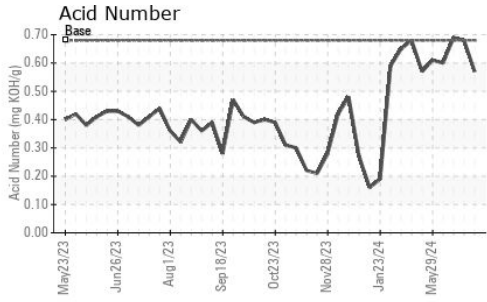
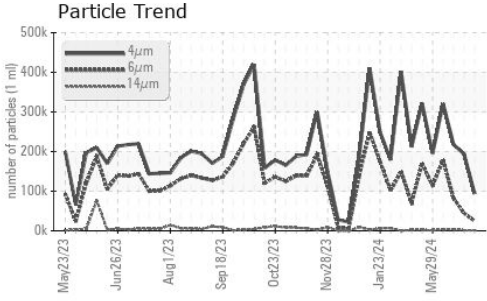
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >50	<b>2</b>	2	3
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>93919</b>	193723	217589
Particles >6µm	ASTM D7647 >320000	<b>24530</b>	44533	81909
Particles >14µm	ASTM D7647 >160000	<b>1279</b>	1347	2792
Particles >21µm	ASTM D7647 >40000	<b>286</b>	279	522
Particles >38µm	ASTM D7647 >10000	<b>15</b>	12	19
Particles >71µm	ASTM D7647 >2500	<b>6</b>	1	1
Oil Cleanliness	ISO 4406 (c) >--/25/24	<b>24/22/17</b>	25/23/18	25/24/19



# OIL ANALYSIS REPORT

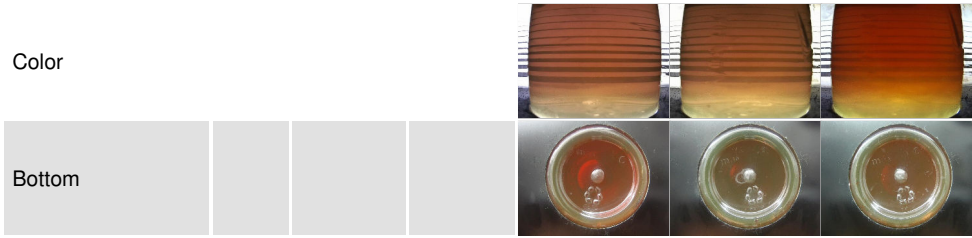


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.68	<b>0.57</b>	0.68	0.69

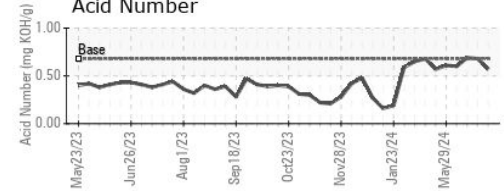
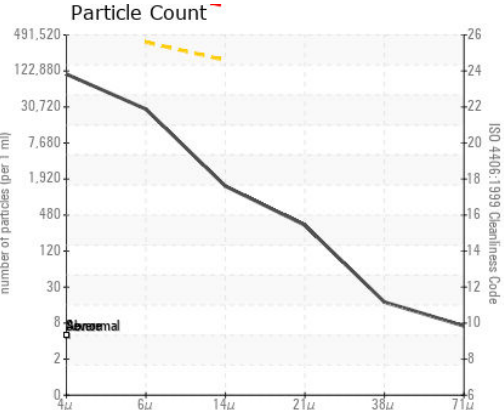
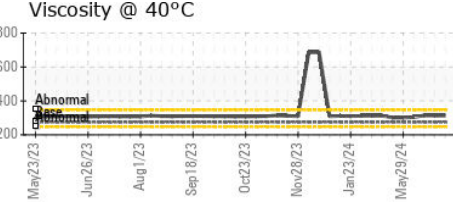
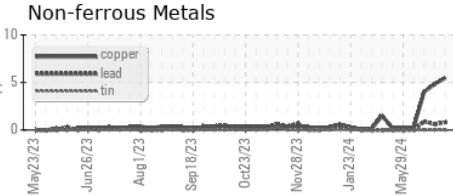
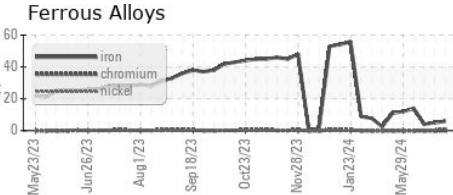
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	<b>VLITE</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)	275	<b>314</b>	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.** : WC0902184  
**Lab Number** : 02647219  
**Unique Number** : 5812771  
**Test Package** : IND 2  
**Received** : 10 Jul 2024  
**Tested** : 11 Jul 2024  
**Diagnosed** : 11 Jul 2024 - Wes Davis

**ST. MARYS CEMENT CO.**  
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 CA L1C 7B5  
 Contact: Lou Traiforos  
 lou.traiforos@vcimentos.com  
 T: (905)440-5874  
 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.