



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area

**8**

Machine Id

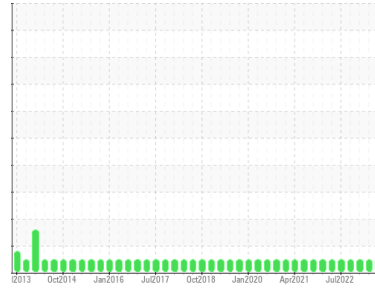
**8-2-301 FM #2 Symetro**

Component

**Gearbox**

Fluid

**MOBIL MOBILGEAR 600 XP 320 (1200 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>WC0869916</b>	WC0842751	WC0818187
Sample Date	Client Info		<b>04 Dec 2023</b>	11 Sep 2023	17 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

## 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>11</b>	13	6
Chromium	ppm	ASTM D5185(m) >15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m) >25	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m) >100	<b>6</b>	6	5
Copper	ppm	ASTM D5185(m) >200	<b>&lt;1</b>	<1	0
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>18</b>	9	9
Barium	ppm	ASTM D5185(m) 0.0	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185(m) 2.0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m) 0.0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 0.0	<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185(m) 42	<b>10</b>	10	13
Phosphorus	ppm	ASTM D5185(m) 399	<b>233</b>	255	325
Zinc	ppm	ASTM D5185(m) 13	<b>5</b>	6	3
Sulfur	ppm	ASTM D5185(m) 13649	<b>8769</b>	9146	9340
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

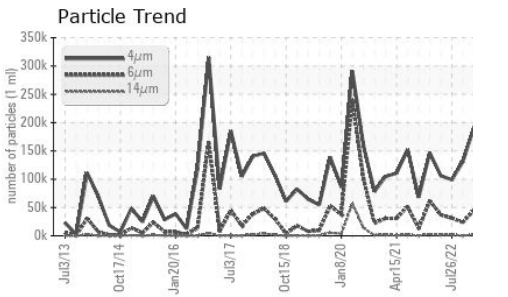
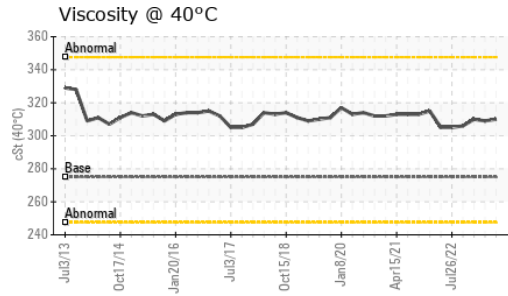
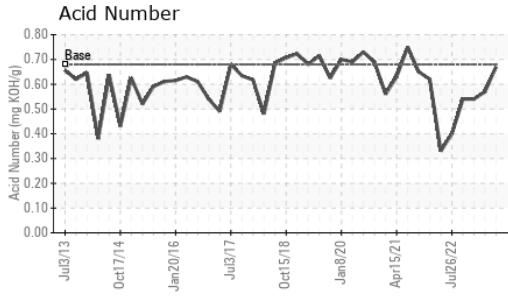
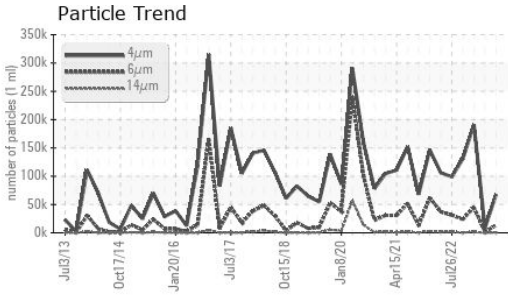
## CONTAMINANTS

	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>0</b>	0	<1

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>67713</b>	8500	190999
Particles >6µm	ASTM D7647	>320000	<b>13468</b>	1571	44842
Particles >14µm	ASTM D7647	>160000	<b>703</b>	59	1646
Particles >21µm	ASTM D7647	>40000	<b>174</b>	17	334
Particles >38µm	ASTM D7647	>10000	<b>4</b>	2	4
Particles >71µm	ASTM D7647	>2500	<b>2</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/25/24	<b>23/21/17</b>	20/18/13	25/23/18

# OIL ANALYSIS REPORT

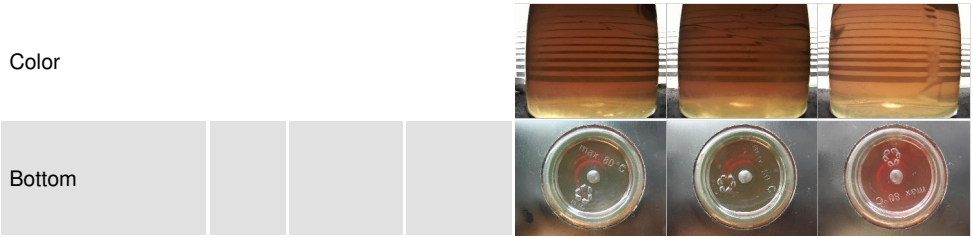


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.68	<b>0.67</b>	0.57	0.54

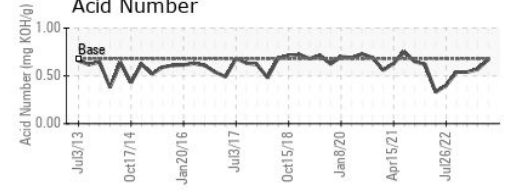
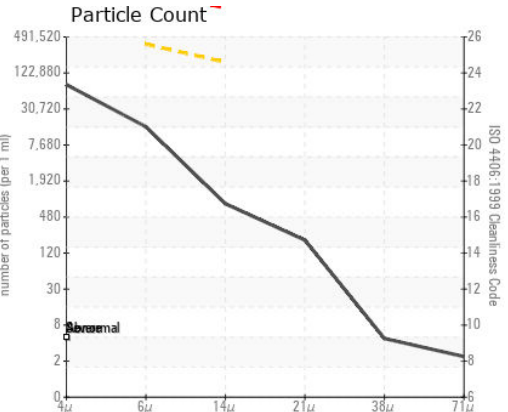
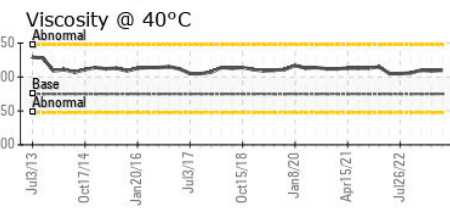
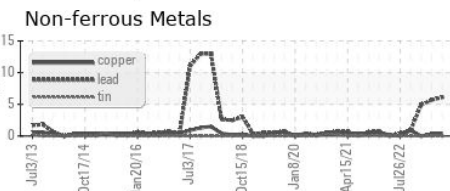
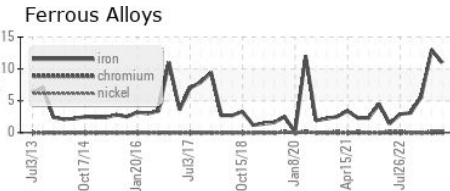
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	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)	275	<b>310</b>	309	310

**SAMPLE IMAGES**      method      limit/base      current      history1      history2



**GRAPHS**



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0869916      **Received** : 08 Dec 2023  
**Lab Number** : **02602029**      **Diagnosed** : 11 Dec 2023  
**Unique Number** : 5695114      **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: TAN Man )

**ST. MARYS CEMENT CO.**  
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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.