

# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**MERCURISER STARBOARD**  
Component  
**Starboard Gearbox**  
Fluid  
**MERCURY HIGH PERFORMANCE (6 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### 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>PC0069565</b>	---	---
Sample Date	Client Info	<b>05 Mar 2024</b>	---	---
Machine Age	yrs Client Info	<b>0</b>	---	---
Oil Age	yrs Client Info	<b>1</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	<b>0</b>	---	---
Iron	ppm ASTM D5185(m) >200	<b>15</b>	---	---
Chromium	ppm ASTM D5185(m) >10	<b>0</b>	---	---
Nickel	ppm ASTM D5185(m) >10	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm ASTM D5185(m)	<b>0</b>	---	---
Aluminum	ppm ASTM D5185(m) >25	<b>&lt;1</b>	---	---
Lead	ppm ASTM D5185(m) >50	<b>2</b>	---	---
Copper	ppm ASTM D5185(m) >200	<b>8</b>	---	---
Tin	ppm ASTM D5185(m) >10	<b>0</b>	---	---
Antimony	ppm ASTM D5185(m) >5	<b>1849</b>	---	---
Vanadium	ppm ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---
Barium	ppm ASTM D5185(m)	<b>0</b>	---	---
Molybdenum	ppm ASTM D5185(m)	<b>22</b>	---	---
Manganese	ppm ASTM D5185(m)	<b>0</b>	---	---
Magnesium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---
Calcium	ppm ASTM D5185(m)	<b>70</b>	---	---
Phosphorus	ppm ASTM D5185(m)	<b>178</b>	---	---
Zinc	ppm ASTM D5185(m)	<b>5</b>	---	---
Sulfur	ppm ASTM D5185(m)	<b>5681</b>	---	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---

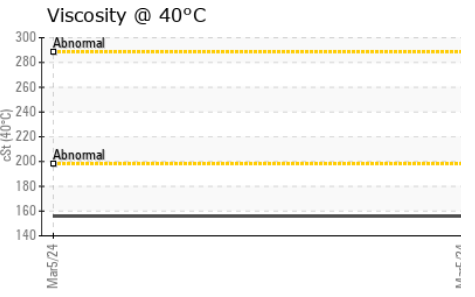
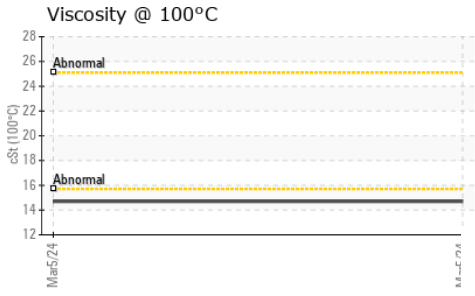
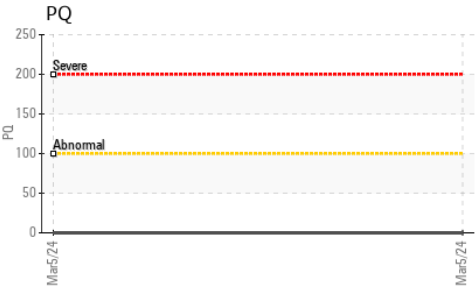
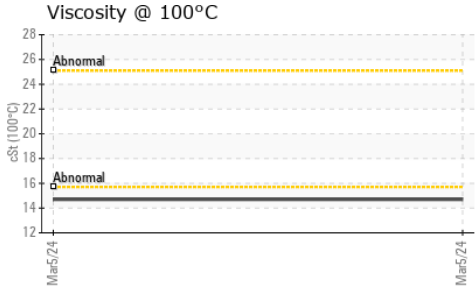
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >50	<b>&lt;1</b>	---	---
Sodium	ppm ASTM D5185(m)	<b>0</b>	---	---
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*	<b>0.43</b>	---	---

# OIL ANALYSIS REPORT



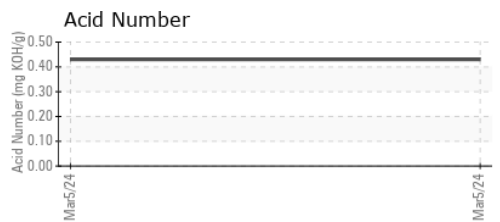
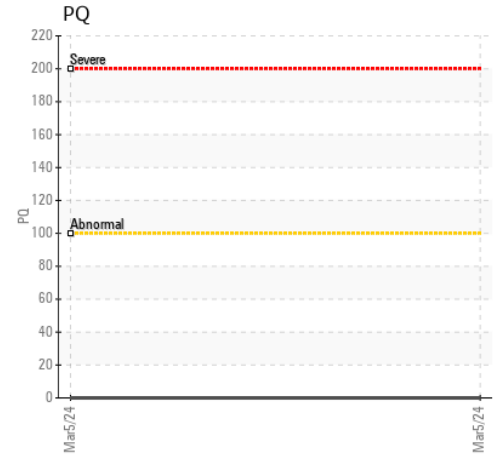
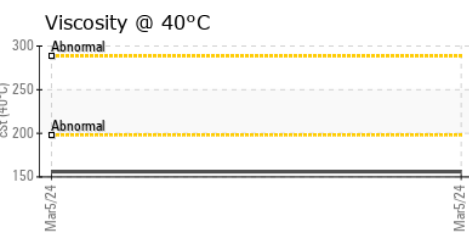
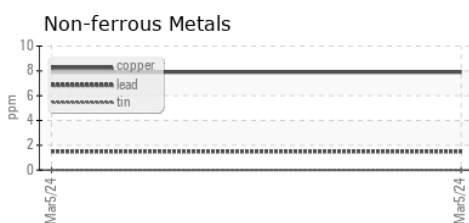
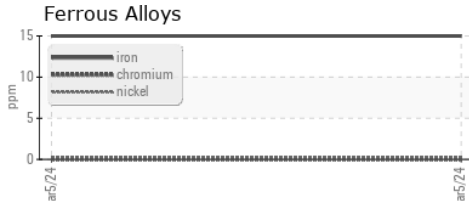
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	<b>156</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	<b>14.7</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	<b>92</b>	---	---

### SAMPLE IMAGES

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0069565 **Received** : 07 Mar 2024  
**Lab Number** : **02620675** **Tested** : 11 Mar 2024  
**Unique Number** : 5737785 **Diagnosed** : 11 Mar 2024 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )

**ERIEAU MARINA**  
 1515 KERR AVE BOX 40  
 ERIEAU, ON  
 CA N0P 1N0  
 Contact: DAVE BARNIER  
 info@erieaumarina.com  
 T: (519)676-4571  
 F: (519)676-3674

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.