WEAR CONTAMINATION **FLUID CONDITION**

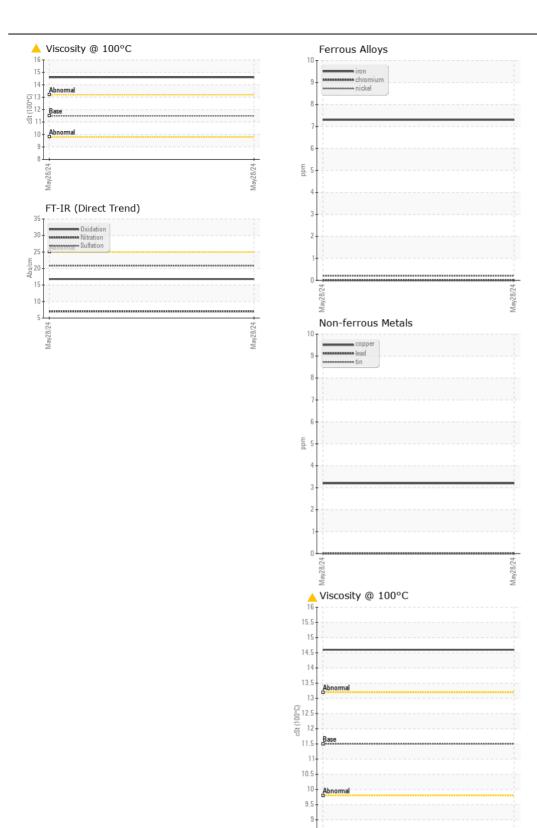
NORMAL NORMAL ABNORMAL

Machine Id

CRUISER 2006005837

Starboard Main Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0950381		
	Sample Date		Client Info		28 May 2024		
	Machine Age	hrs	Client Info		1500		
	Oil Age	hrs	Client Info		20		
	Filter Age	hrs	Client Info		20		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
VEAR	Iron	ppm	ASTM D5185(m)	>75	7		
WEAT	Chromium	ppm	ASTM D5185(m)		0		
All component wear rates are normal.	Nickel	ppm	. ,	>2	<1		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	>2	0		
	Aluminum	ppm	ASTM D5185(m)		1		
	Lead	ppm	ASTM D5185(m)	>18	0		
	Copper	ppm	ASTM D5185(m)	>80	3		
	Tin	ppm	ASTM D5185(m)	>14	0		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon		ACTM DE10E()	00	•		
CONTAMINATION		ppm	ASTM D5185(m)	>20	3 6		
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185(m) WC Method	>20	<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	<i>></i> 0.1	NEG		
	Soot %	%	ASTM D7844*		0		
	Nitration	Abs/cm	ASTM D7624*	>20	7.0		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	20.8		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	VLITE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.1	NEG		
THE CONDITION	Ca alliuma		ACTM DE10E()	75	•		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>/5	2		
Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		161		
	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		12		
	Manganese Magnesium	ppm	ASTM D5185(m) ASTM D5185(m)		0 15		
	Calcium	ppm	ASTM D5185(m) ASTM D5185(m)		2112		
	Phosphorus	ppm	ASTM D5185(m) ASTM D5185(m)		994		
	FIIOSDIIOIUS	ppm	, ,				
	•	nnm	ACTM DE10E/m/		1110	1	
	Zinc	ppm	ASTM D5185(m)		1110		
	•	ppm ppm Abs/.1mm	ASTM D5185(m) ASTM D5185(m) ASTM D7414*	\25	1110 2951 16.8		





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Lab Number : 02638797

: WC0950381 Unique Number : 5787959 Test Package : MAR 1

8.5

Received **Tested** Diagnosed

: 30 May 2024 : 30 May 2024

: 30 May 2024 - Kevin Marson

Contact: CHARLES FARRAN beachesmarine@hotmail.com T: (416)691-0312 F: (866)477-0666

BEACHES MARINE BROKERAGE

2146 A QUEEN ST E SUITE 106

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.

TORONTO, ON

CA M4E 1E3