

OIL ANALYSIS REPORT

Sample Rating Trend



SME (S/N 526110788)

Starboard Main Engine Fluid MOBIL DELVAC 1640 (205 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

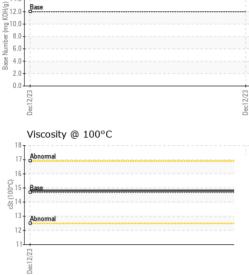
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

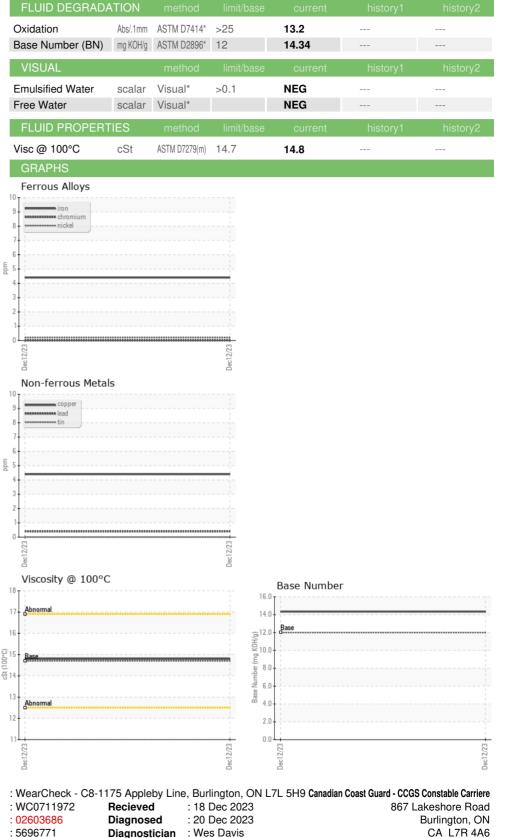
				Dec2023		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0711972		
Sample Date		Client Info		12 Dec 2023		
Machine Age	hrs	Client Info		856		
Oil Age	hrs	Client Info		373		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0		
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	4		
Chromium	ppm	ASTM D5185(m)	>8	0		
Nickel	ppm	ASTM D5185(m)	>2	<1		
Titanium	ppm	ASTM D5185(m)	>3	0		
Silver	ppm	ASTM D5185(m)	>2	<1		
Aluminum	ppm	ASTM D5185(m)	>15	1		
Lead	ppm	ASTM D5185(m)	>18	<1		
Copper	ppm	ASTM D5185(m)	>80	4		
Tin	ppm	ASTM D5185(m)	>14	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		5		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		1		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		183		
Calcium	ppm	ASTM D5185(m)		3916		
Phosphorus	ppm	ASTM D5185(m)		922		
Zinc	ppm	ASTM D5185(m)		1073		
Sulfur	ppm	ASTM D5185(m)		7473		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	5		
Sodium	ppm	ASTM D5185(m)	>75	2		
Potassium	ppm	ASTM D5185(m)	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0		
Nitration	Abs/cm	ASTM D7624*	>20	8.7		
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.6		



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Base Number 16.0 14.0 Base





Accredited Laboratory Unique Number Test Package : MAR 2 Contact: Chief Engineer To discuss this sample report, contact Customer Service at 1-800-268-2131. constablecarriereCE@ccgs-ngcc.gc.ca 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.

CALA

ISO 17025:2017

Laboratory

Sample No.

Lab Number

F: x:

T: (705)542-2737