

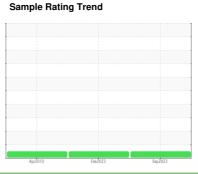
# **OIL ANALYSIS REPORT**

# CLARKE & SONS FISHING LTD.

FISHING VESSEL MV JOYFUL SOUND

Main Engine

SHELL ROTELLA T 15W40 (130 LTR)





## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

#### Moor

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

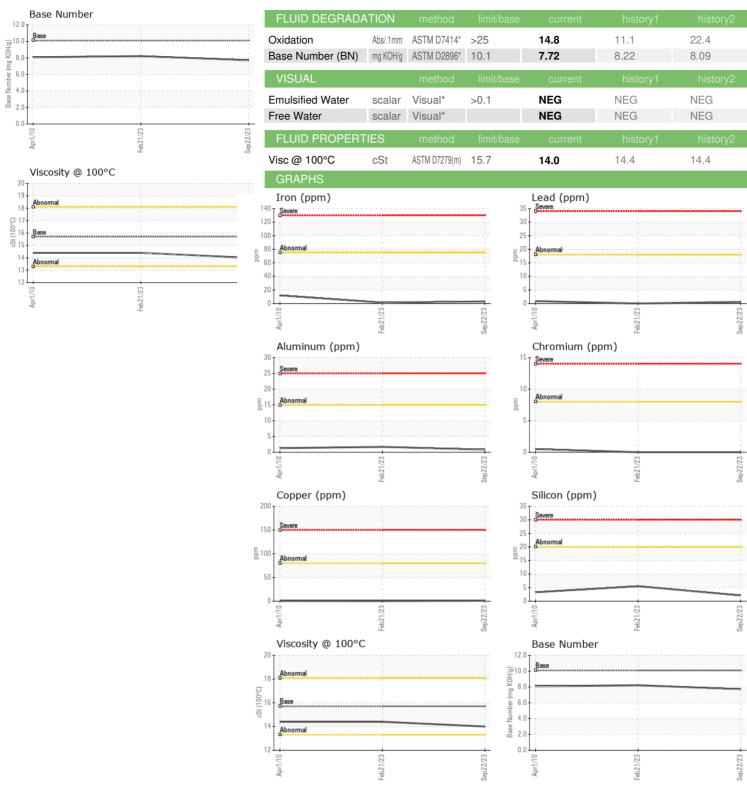
# **Fluid Condition**

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

Apr2010 Feb2023 Sep2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		OF0000292	OF0000946	OF0000055
Sample Date		Client Info		22 Sep 2023	21 Feb 2023	01 Apr 2010
Machine Age	hrs	Client Info		12201	10501	21110
Oil Age	hrs	Client Info		1700	50	428
Oil Changed		Client Info		Changed	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	3	1	12
Chromium	ppm	ASTM D5185(m)	>8	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
Titanium	ppm	ASTM D5185(m)	>3	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	<1	2	1
Lead	ppm	ASTM D5185(m)	>18	<1	0	<1
Copper	ppm	ASTM D5185(m)	>80	1	<1	<1
Tin	ppm	ASTM D5185(m)	>14	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	<1
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	35	130	64	28
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	8	74	<1
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	10	10	12	11
Calcium	ppm	ASTM D5185(m)	2340	2148	2100	2264
Phosphorus	ppm	ASTM D5185(m)	1110	986	980	1026
Zinc	ppm	ASTM D5185(m)	1210	1135	1117	1184
Sulfur	ppm	ASTM D5185(m)	3890	2939	3048	2732
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	2	6	3
Sodium	ppm	ASTM D5185(m)	>75	3	3	7
Potassium	ppm	ASTM D5185(m)	>20	2	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0.2	0	0.2
Nitration	Abs/cm	ASTM D7624*	>20	6.6	7.1	10.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.9	16.5	24.8



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: OF0000292 : 02587426

: 5656492 Test Package : MOB 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 06 Oct 2023 Diagnosed Diagnostician

: Wes Davis

: 13 Oct 2023

Oil Filtration Solutions Ltd.

PO BOX 16125 CONCEPTION BAY SOUTH, NL CA A1X 2E2

Contact: BILL BUTLER

BBUTLER@OILFILTRATIONSOLUTIONS.COM T: (709)834-8433

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.

F: (709)834-8435

Submitted By: BILL BUTLER