



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
McCarthy's Fisheries Ltd
 Machine Id
COMMERCIAL FISHING MV Executioner
 Component
Main Engine
 Fluid
DIESEL ENGINE OIL SAE 40 (1200 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid. (Customer Sample Comment: 5,400 hrs since rebuild. Irving SAE 40 oil.)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0000965	OF0000304	---
Sample Date		Client Info		11 Apr 2024	15 Sep 2023	---
Machine Age	hrs	Client Info		5400	3200	---
Oil Age	hrs	Client Info		750	460	---
Filter Age	hrs	Client Info		350	220	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

Component wear rates appear to be normal (unconfirmed).

Iron	ppm	ASTM D5185(m)	>75	5	6	---
Chromium	ppm	ASTM D5185(m)	>8	0	0	---
Nickel	ppm	ASTM D5185(m)	>2	0	0	---
Titanium	ppm	ASTM D5185(m)	>3	0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>15	2	2	---
Lead	ppm	ASTM D5185(m)	>18	0	<1	---
Copper	ppm	ASTM D5185(m)	>80	3	1	---
Tin	ppm	ASTM D5185(m)	>14	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

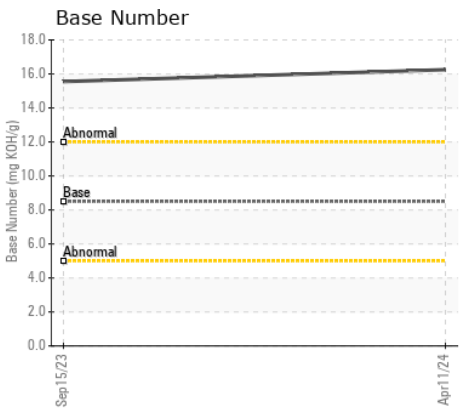
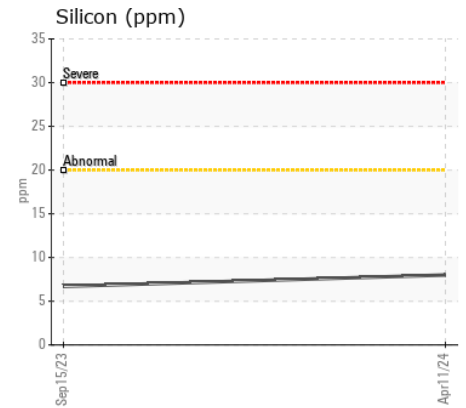
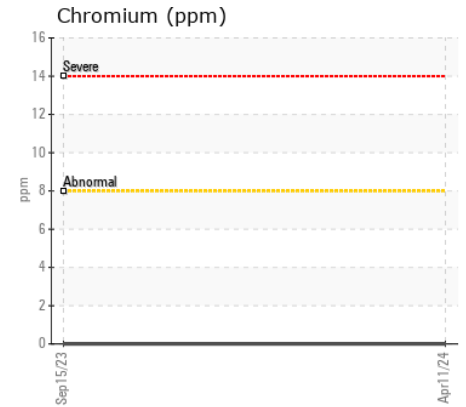
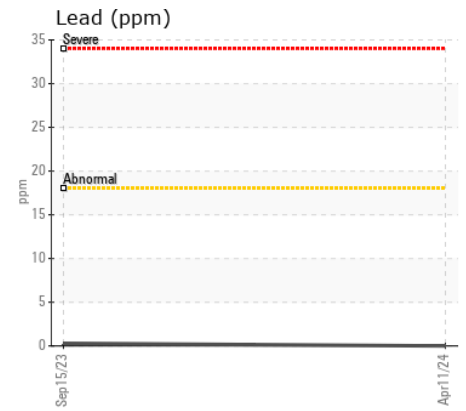
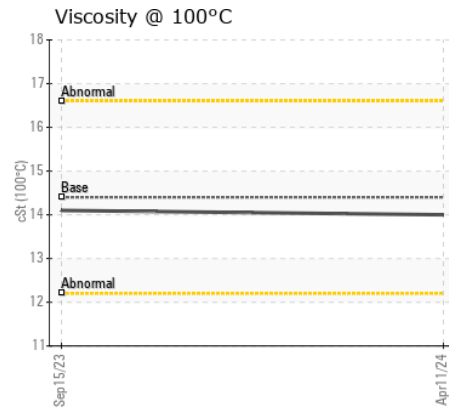
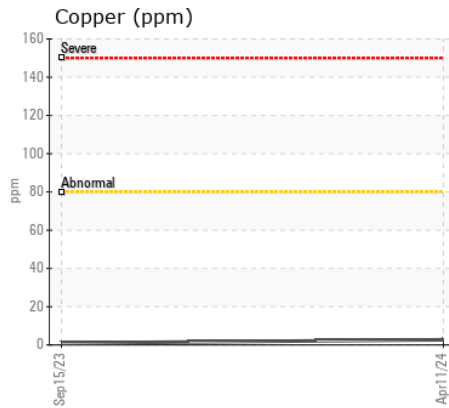
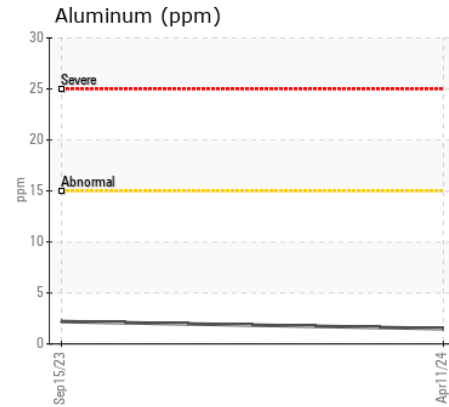
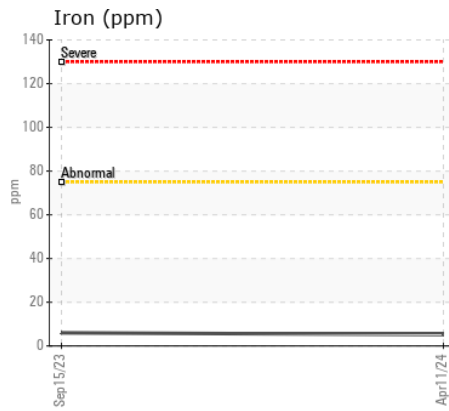
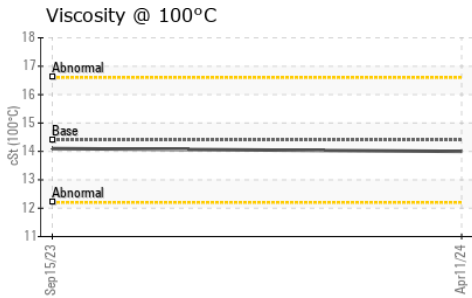
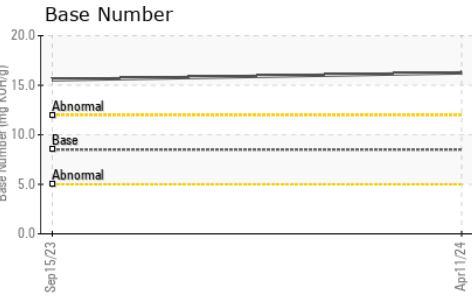
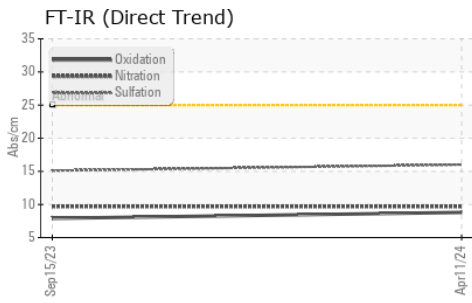
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	8	7	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*		0	0.1	---
Nitration	Abs/cm	ASTM D7624*	>20	9.7	9.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.0	15.1	---
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	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

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.

Sodium	ppm	ASTM D5185(m)	>216	<1	<1	---
Boron	ppm	ASTM D5185(m)	250	1	2	---
Barium	ppm	ASTM D5185(m)	10	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	100	0	0	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)	450	15	17	---
Calcium	ppm	ASTM D5185(m)	3000	5734	5615	---
Phosphorus	ppm	ASTM D5185(m)	1150	933	952	---
Zinc	ppm	ASTM D5185(m)	1350	1022	1024	---
Sulfur	ppm	ASTM D5185(m)	4250	9974	10786	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	8.8	7.9	---
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	16.25	15.55	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.0	14.1	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000965
Lab Number : 02630047
Unique Number : 5763179
Test Package : MOB 2 (Additional Tests: Visual)

Received : 18 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 19 Apr 2024 - Kevin Marson

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.

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