



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FISHING VESSEL MV Hearn`s Endeavor

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 32 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: After OFS water removal technology.)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		OF0000505	OF0000522	OF0000232
Sample Date		Client Info		10 Apr 2024	07 Apr 2024	20 Mar 2022
Machine Age	hrs	Client Info		2540	2480	0
Oil Age	hrs	Client Info		2540	2480	250
Filter Age	hrs	Client Info		10	10	250
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Changed	Changed	Not Chngd
Sample Status				NORMAL	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	7	8	13
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	1
Lead	ppm	ASTM D5185(m)	>10	5	5	5
Copper	ppm	ASTM D5185(m)	>75	32	32	27
Tin	ppm	ASTM D5185(m)	>10	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

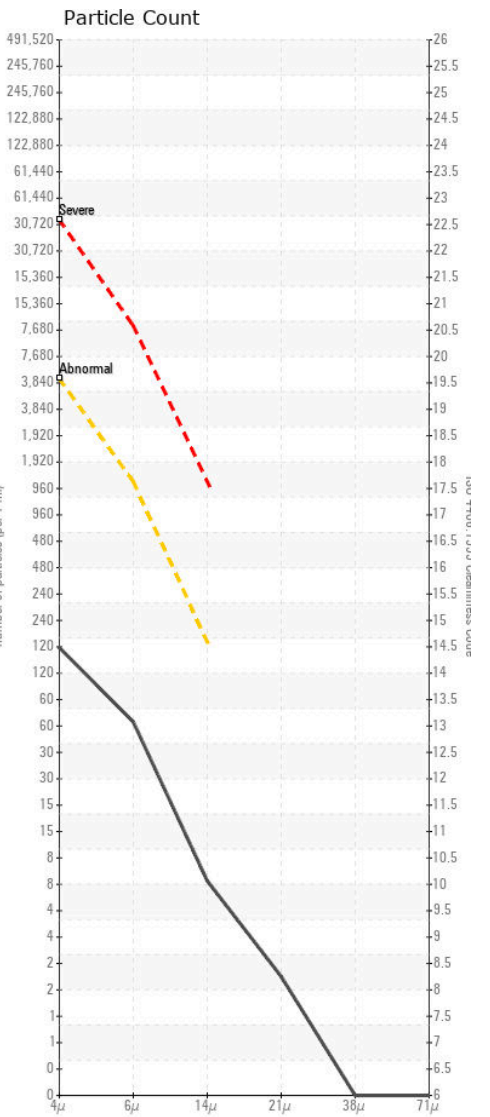
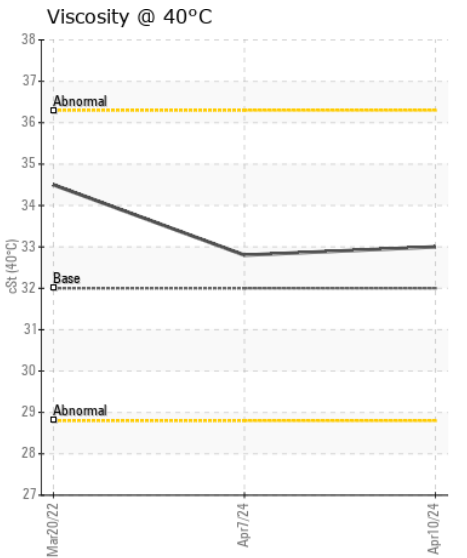
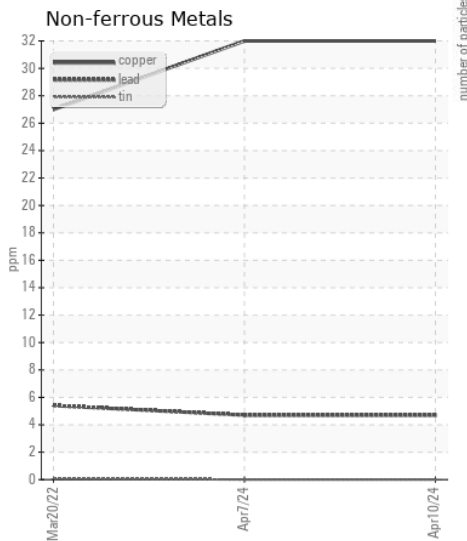
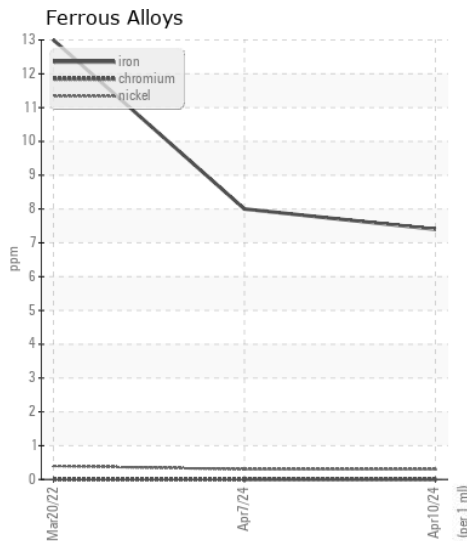
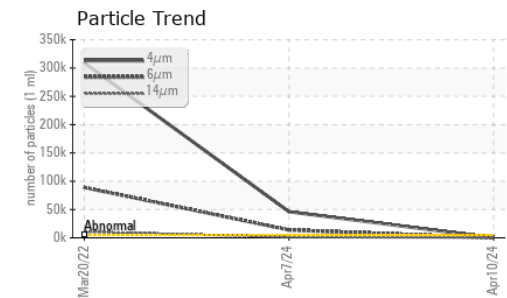
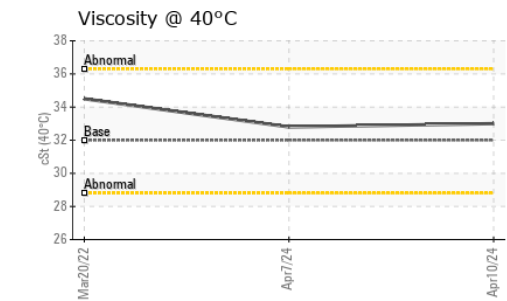
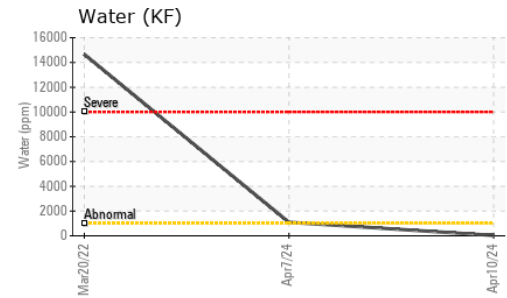
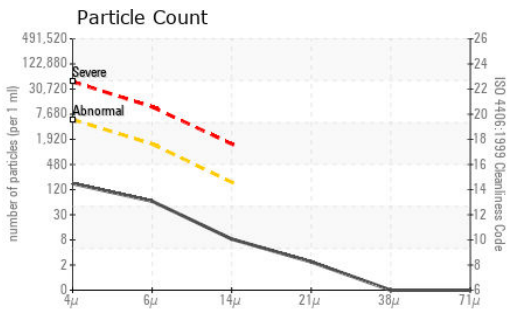
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>20	<1	<1	2
Potassium	ppm	ASTM D5185(m)	>20	<1	2	6
Water	%	ASTM D6304*	>0.1	0.003	▲ 0.109	▲ 1.466
ppm Water	ppm	ASTM D6304*	>1000	33	▲ 1093	▲ 14660.5
Particles >4µm		ASTM D7647	>5000	148	▲ 46189	▲ 309071
Particles >6µm		ASTM D7647	>1300	56	▲ 13812	▲ 89002
Particles >14µm		ASTM D7647	>160	7	▲ 1388	▲ 10580
Particles >21µm		ASTM D7647	>40	2	▲ 372	▲ 3685
Particles >38µm		ASTM D7647	>10	0	8	▲ 194
Particles >71µm		ASTM D7647	>3	0	2	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/13/10	▲ 23/21/18	▲ 25/24/21
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	VLITE	VLITE	NONE
Appearance	scalar	Visual*	NORML	NORML	▲ HAZY	▲ MILKY
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	▲ .2%	▲ 1%

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		17	45	183
Boron	ppm	ASTM D5185(m)	5	0	<1	3
Barium	ppm	ASTM D5185(m)	5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	5	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	25	3	4	15
Calcium	ppm	ASTM D5185(m)	200	7	6	6
Phosphorus	ppm	ASTM D5185(m)	300	307	302	336
Zinc	ppm	ASTM D5185(m)	370	122	121	195
Sulfur	ppm	ASTM D5185(m)	2500	1755	1731	1954
Visc @ 40°C	cSt	ASTM D7279(m)	32	33.0	32.8	34.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : OF0000505 **Received** : 18 Apr 2024
Lab Number : 02629965 **Tested** : 22 Apr 2024
Unique Number : 5763097 **Diagnosed** : 22 Apr 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: KF)

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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.