



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**EGR-813 FWD Mooring**  
 Component  
**Winch**  
 Fluid  
**SHELL TELLUS S2 VX 32 (550 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0827868</b>	WC0739331	WC0698939
Sample Date		Client Info		<b>18 Apr 2024</b>	31 Aug 2023	25 Aug 2022
Machine Age	mths	Client Info		<b>0</b>	0	0
Oil Age	mths	Client Info		<b>0</b>	0	0
Filter Age	mths	Client Info		<b>7</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>30	<b>4</b>	4	3
Chromium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Lead	ppm	ASTM D5185(m)	>70	<b>0</b>	3	<1
Copper	ppm	ASTM D5185(m)	>65	<b>3</b>	4	4
Tin	ppm	ASTM D5185(m)	>9	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

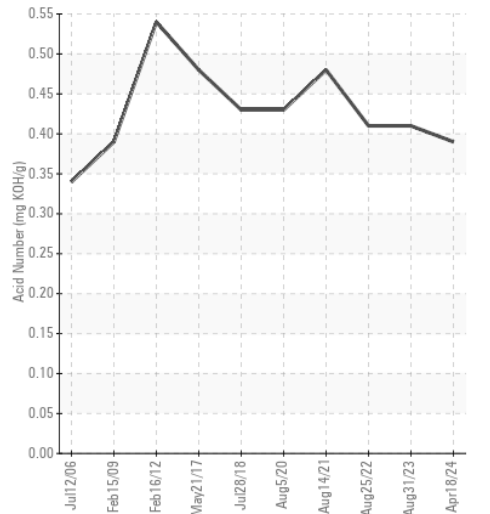
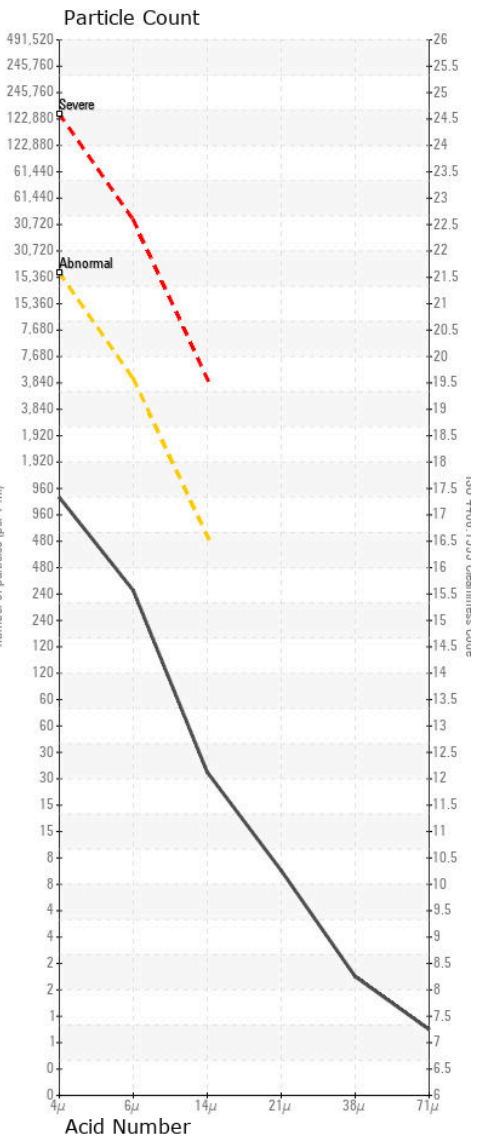
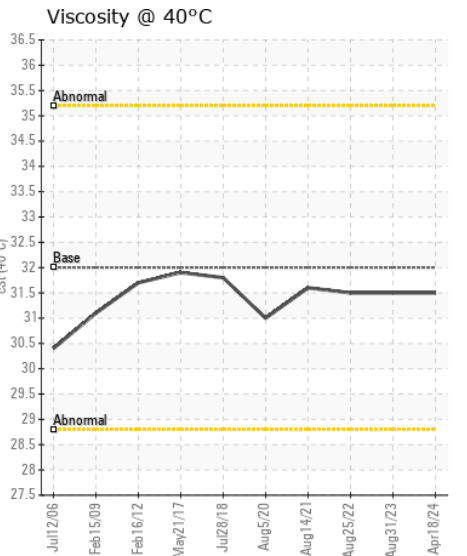
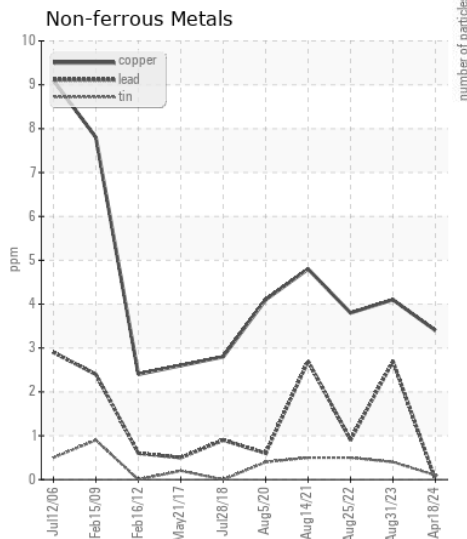
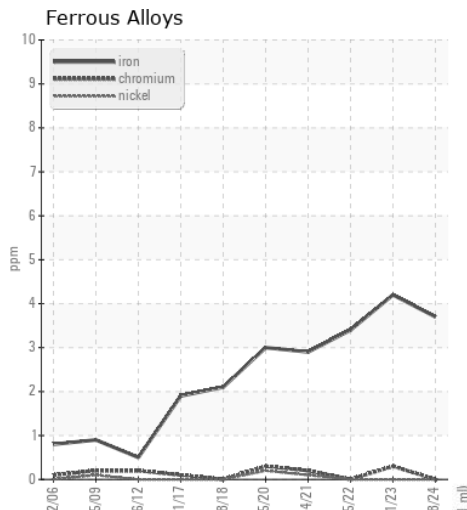
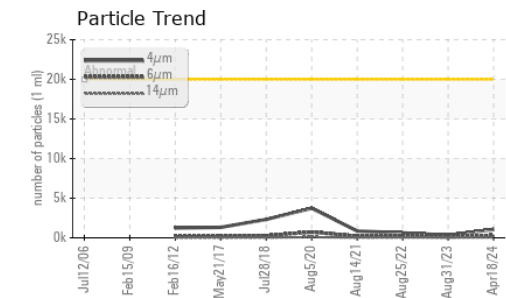
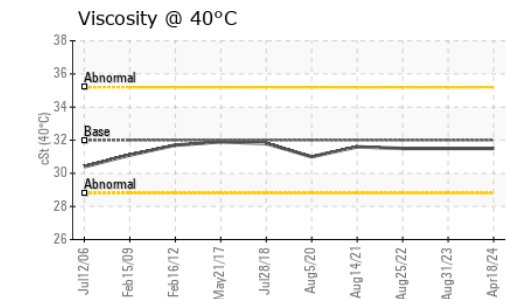
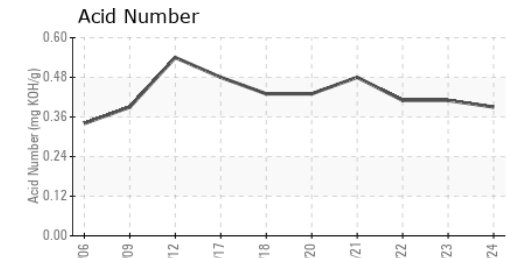
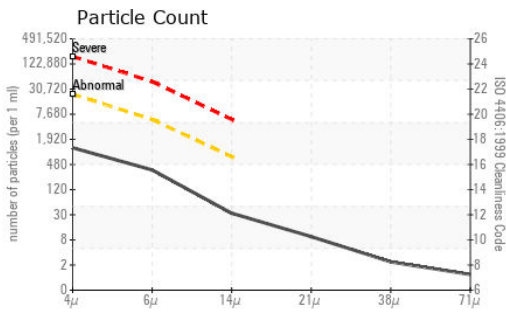
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>30	<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>1058</b>	336	629
Particles >6µm		ASTM D7647	>5000	<b>313</b>	109	180
Particles >14µm		ASTM D7647	>640	<b>29</b>	16	29
Particles >21µm		ASTM D7647	>160	<b>8</b>	3	8
Particles >38µm		ASTM D7647	>40	<b>2</b>	0	1
Particles >71µm		ASTM D7647	>10	<b>1</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>17/15/12</b>	16/14/11	16/15/12
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<b>1</b>	1	2
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>12</b>	8	4
Calcium	ppm	ASTM D5185(m)		<b>49</b>	54	52
Phosphorus	ppm	ASTM D5185(m)		<b>289</b>	331	314
Zinc	ppm	ASTM D5185(m)		<b>344</b>	362	320
Sulfur	ppm	ASTM D5185(m)		<b>1851</b>	2175	2160
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>0.39</b>	0.41	0.41
Visc @ 40°C	cSt	ASTM D7279(m)	32	<b>31.5</b>	31.5	31.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0827868  
**Lab Number** : 02632594  
**Unique Number** : 5773747  
**Test Package** : MAR 2  
**Received** : 01 May 2024  
**Tested** : 02 May 2024  
**Diagnosed** : 02 May 2024 - Wes Davis

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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.