



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**Guardian**

Machine Id

**20201017**

Component

**Starboard Gearbox**

Fluid

**TUXTON SAE 30 (16 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

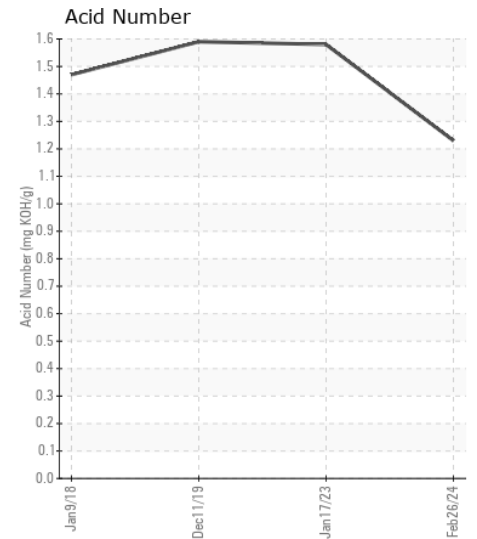
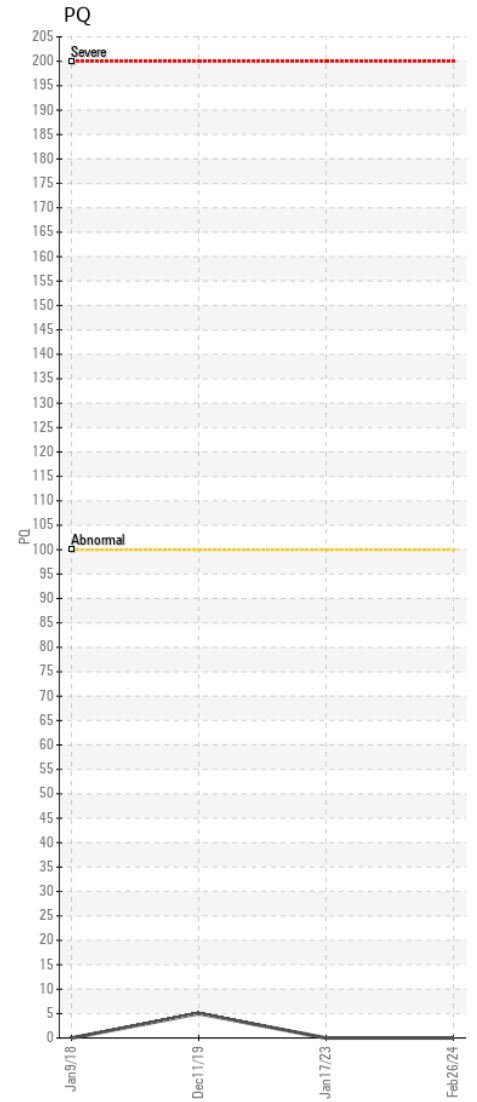
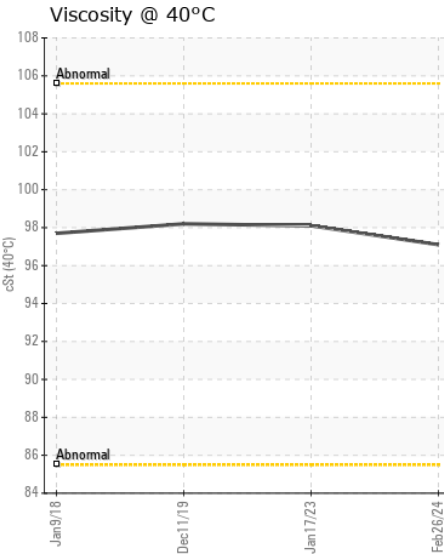
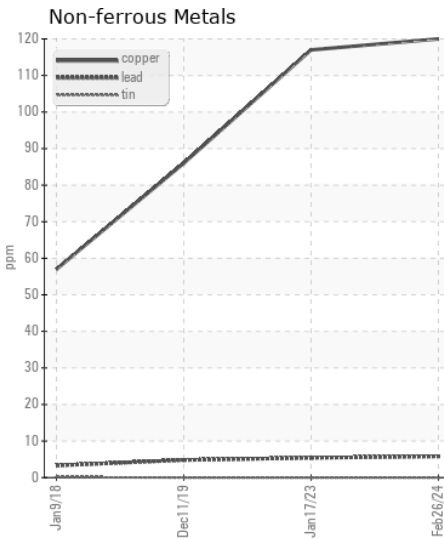
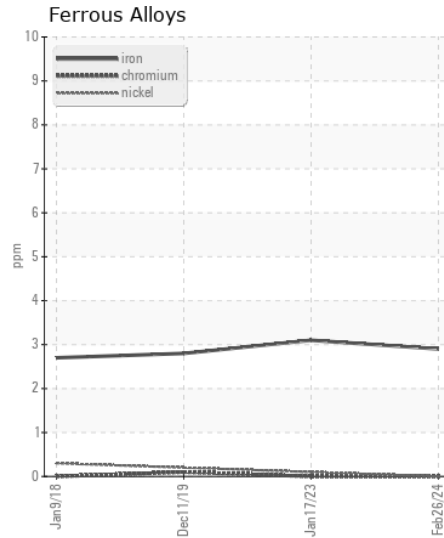
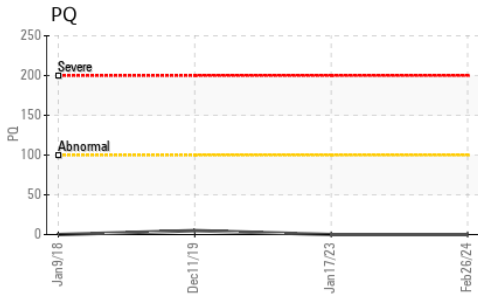
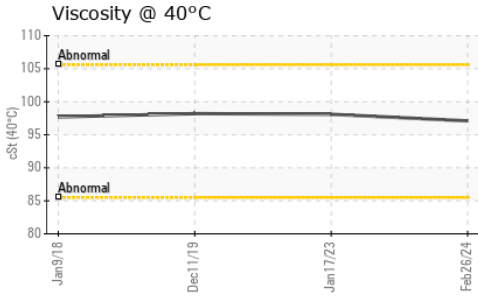
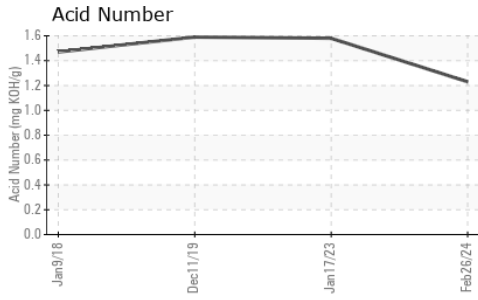
## CONTAMINATION

There is no indication of any contamination in the oil.

## FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0895387</b>	WC0764529	WC0394173
Sample Date		Client Info		<b>26 Feb 2024</b>	17 Jan 2023	11 Dec 2019
Machine Age	hrs	Client Info		<b>613</b>	542	466
Oil Age	hrs	Client Info		<b>563</b>	472	466
Filter Age	hrs	Client Info		<b>563</b>	472	466
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL
PQ		ASTM D8184*		<b>0</b>	0	5
Iron	ppm	ASTM D5185(m)	>200	<b>3</b>	3	3
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)		<b>2</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	1	1
Lead	ppm	ASTM D5185(m)	>50	<b>6</b>	5	5
Copper	ppm	ASTM D5185(m)	>200	<b>120</b>	117	86
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
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
Silicon	ppm	ASTM D5185(m)	>50	<b>2</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
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	GLYCL
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185(m)		<b>4</b>	3	2
Boron	ppm	ASTM D5185(m)		<b>10</b>	11	11
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>4</b>	4	5
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>12</b>	13	12
Calcium	ppm	ASTM D5185(m)		<b>3002</b>	3026	3059
Phosphorus	ppm	ASTM D5185(m)		<b>959</b>	1019	960
Zinc	ppm	ASTM D5185(m)		<b>1065</b>	1069	1085
Sulfur	ppm	ASTM D5185(m)		<b>9149</b>	8764	8961
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>1.23</b>	1.58	1.59
Visc @ 40°C	cSt	ASTM D7279(m)		<b>97.1</b>	98.1	98.2



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0895387  
**Lab Number** : 02620200  
**Unique Number** : 5737310  
**Test Package** : MAR 2  
**Received** : 06 Mar 2024  
**Tested** : 07 Mar 2024  
**Diagnosed** : 07 Mar 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.