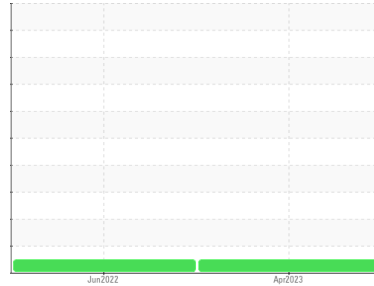




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
GEARBOX STBD (S/N 26442)

Component
Starboard Gearbox

Fluid
SHELL GADINIA 30 (45 LTR)

DIAGNOSIS

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0722092	WC0693927	---
Sample Date	Client Info			22 Apr 2023	20 Jun 2022	---
Machine Age	hrs	Client Info		41560	1	---
Oil Age	hrs	Client Info		860	1	---
Oil Changed	Client Info			N/A	Not Chngd	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	---
Iron	ppm	ASTM D5185(m)	>150	27	19	---
Chromium	ppm	ASTM D5185(m)	>10	0	0	---
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	---
Titanium	ppm	ASTM D5185(m)		<1	<1	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>5	1	1	---
Lead	ppm	ASTM D5185(m)	>65	0	0	---
Copper	ppm	ASTM D5185(m)	>80	2	1	---
Tin	ppm	ASTM D5185(m)	>8	0	0	---
Antimony	ppm	ASTM D5185(m)	>5	<1	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

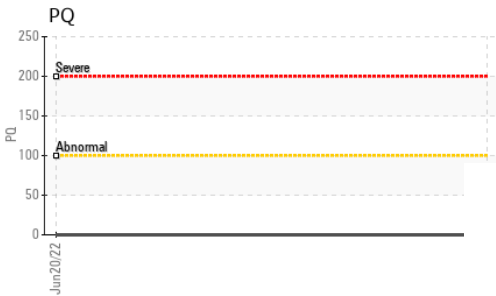
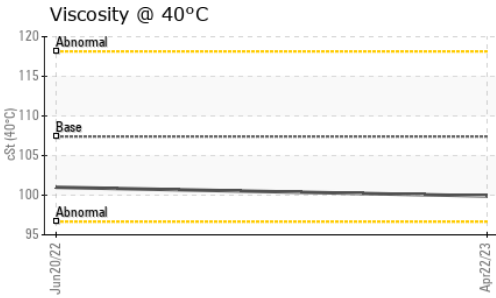
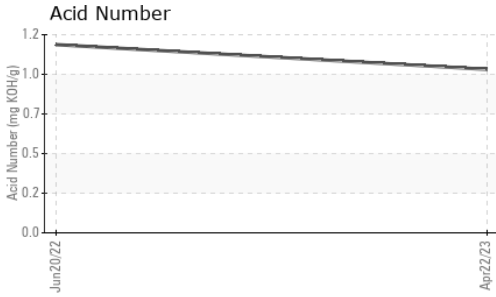
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		3	4	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		<1	<1	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		28	28	---
Calcium	ppm	ASTM D5185(m)	3800	4966	4949	---
Phosphorus	ppm	ASTM D5185(m)		579	544	---
Zinc	ppm	ASTM D5185(m)		580	586	---
Sulfur	ppm	ASTM D5185(m)		6534	6733	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	7	8	---
Sodium	ppm	ASTM D5185(m)		5	6	---
Potassium	ppm	ASTM D5185(m)	>20	2	2	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.99	1.14	---



OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	107.4	99.9	101

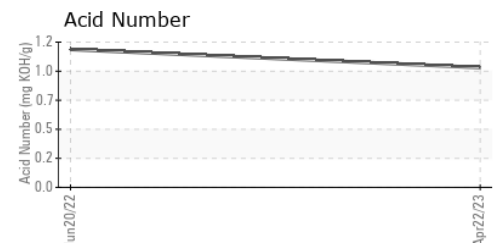
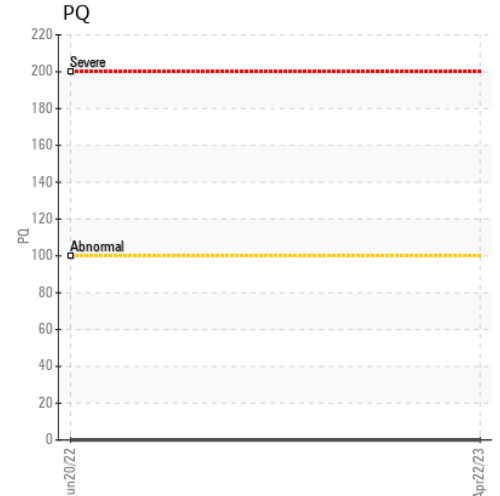
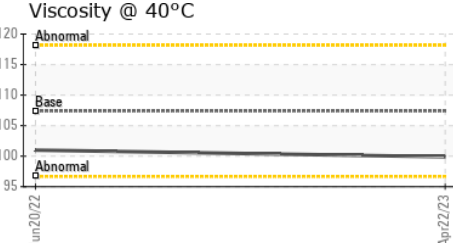
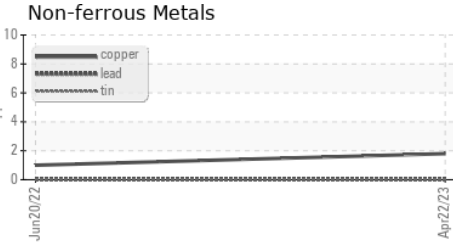
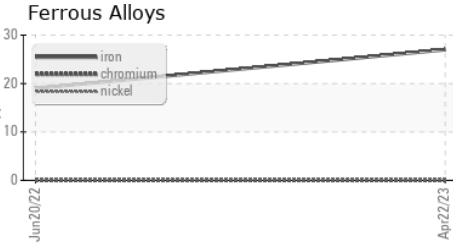
SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

Bottom

no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CANSHIP UGLAND - CRT EXPRESS**
Sample No. : WC0722092 **Received** : 28 Apr 2023 1315 TOPSAIL ROAD, PO BOX 8040 STN A
Lab Number : 02554160 **Diagnosed** : 01 May 2023 ST JOHNS, NL
Unique Number : 5567175 **Diagnostician** : Wes Davis CA A1B 3M7
Test Package : MAR 2

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.

Contact: Peter Collins
 technical@canship.com
 T: (709)782-3333
 F: (709)782-0225