WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Machine Id

SIGNET VOLUNTEER

Starboard Reduction Gear

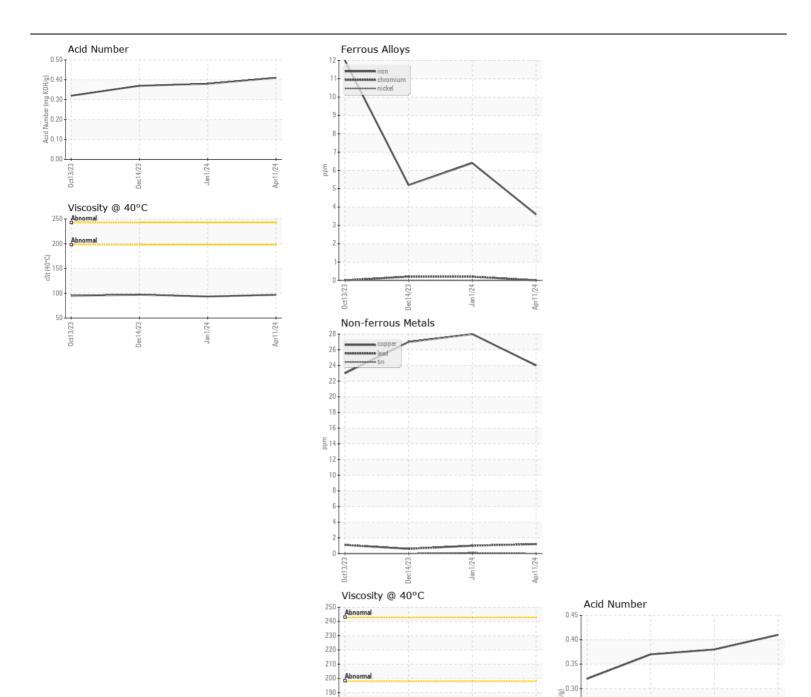
{not provided} (GAL)							
Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	OOW	Client Info	Lillio toll	MW0064098	MW0064152	MW0064062
	Sample Date		Client Info		11 Apr 2024	01 Jan 2024	14 Dec 2023
	Machine Age	hrs	Client Info		8009	7874	7709
	Oil Age	hrs	Client Info		0	0	91
	Filter Age	hrs	Client Info		0	0	91
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>150	4	6	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	<1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	0	2	1
	Lead	ppm	ASTM D5185m	>100	1	1	<1
	Copper	ppm	ASTM D5185m	>50	24	28	27
	Tin	ppm	ASTM D5185m	>10	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ACTM DE10Em	. EO	0	0	0
CONTAMINATION	Potassium	ppm	ASTM D5185m ASTM D5185m		2	<1	0
There is no indication of any contamination in the oil.	Water	ppm	WC Method		NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	0	0
	Boron	ppm	ASTM D5185m		3	10	10
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	10	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m		<1	3	2
	Calcium	ppm	ASTM D5185m		98	93	104
	Phosphorus	ppm	ASTM D5185m		229	277	258
	Zinc	ppm	ASTM D5185m		21	5	10
	Sulfur	ppm	ASTM D5185m		7310	6246	6281
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.41	0.38	0.37
		_					

93.5

96.9

Visc @ 40°C cSt ASTM D445

97.2







Certificate L2367

Laboratory Sample No.

: MW0064098 Lab Number : 06153242 Unique Number: 10983320 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Apr 2024 **Tested**

Jan 1/24

: 19 Apr 2024 Diagnosed : 19 Apr 2024 - Wes Davis

P 0.25 를 0.20

0.10

0.05

0.00

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

(180 (2004) 170

150 140 130

120 110

100 90

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Dec14/23

Dec14/23