WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

EIC

Component Starboard Reduction Gear

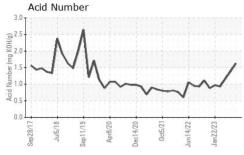
Reduction Gear Oil (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information 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.	Sample Number		Client Info		MW05981974	MW05863166	MW05824228
	Sample Date		Client Info		16 Oct 2023	01 Jun 2023	18 Apr 2023
	Machine Age	hrs	Client Info		22344	22037	21149
	Oil Age	hrs	Client Info		307	888	1470
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>150	2	2	3
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	0	<1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	2	6
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	<1	0	<1
	Lead	ppm	ASTM D5185m	>100	<1	0	0
	Copper	ppm	ASTM D5185m	>50	0	<1	<1
	Tin	ppm	ASTM D5185m	>10	0	0	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	4	4	3
CONTAININATION	Potassium	ppm	ASTM D5185m ASTM D5185m		2	0	<1
There is no indication of any contamination in the oil.	Water	ppiii	WC Method		NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	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
ELUID CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	3
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		335	340	172
	Barium	ppm	ASTM D5185m		3	0	0
	Molybdenum	ppm	ASTM D5185m		38	41	43
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium Calcium	ppm	ASTM D5185m		96 2500	198	572
	Phosphorus	ppm	ASTM D5185m		2590 837	2731 873	1780 857
	Zinc	ppm	ASTM D5185m ASTM D5185m		964	1001	971
	Sulfur	ppm	ASTM D5185m		3214	3896	3818
	Acid Number (AN)	mg KOH/g			1.63	1.39	1.17
	ACIO NUITIDEI (AIN)	my NOTIFY	70 LM D0042		1.03	1.00	1.17

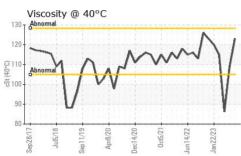
Visc @ 40°C cSt ASTM D445

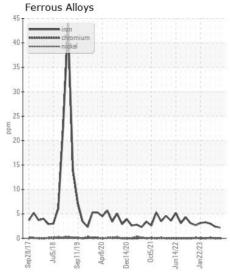
109

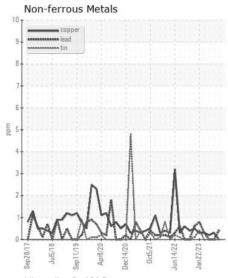
123

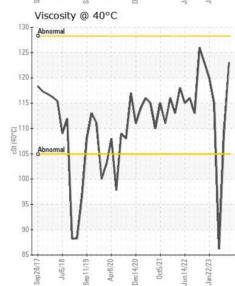
86.2

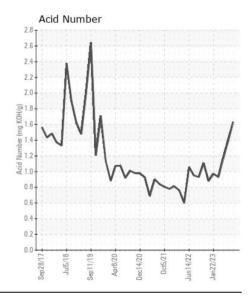














Laboratory Sample No.

Lab Number : 05981974 Unique Number : 10699269

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : MW05981974 : 17 Oct 2023 Received : 18 Oct 2023 **Tested**

Diagnosed

Test Package : MAR 2 Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

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: 18 Oct 2023 - Wes Davis

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