WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

AGC

Component Starboard Reduction Gear

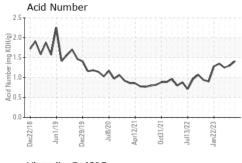
Reduction Gear Oil (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information 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		MW05863163	MW05843487	MW05824235
	Sample Date		Client Info		01 Jun 2023	09 May 2023	18 Apr 2023
	Machine Age	hrs	Client Info		58964	58674	57820
	Oil Age	hrs	Client Info		290	1720	885
	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	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>150	<1	3	3
	Chromium	ppm	ASTM D5185m	>10	0	0	<1
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	0	0	1
	Lead	ppm	ASTM D5185m	>100	0	0	0
	Copper	ppm	ASTM D5185m	>50	<1	<1	<1
	Tin	ppm	ASTM D5185m	>10	<1	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	ppm	ASTM D5185m	<u> </u>	4	4	4
	Potassium	ppm	ASTM D5185m		0	1	0
There is no indication of any contamination in the oil.	Water	ррпп	WC Method	>0.1	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
FLUID CONDITION	Sodium		ASTM D5185m		2	<1	2
	Boron	ppm	ASTM D5185m		417	376	377
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	2	0
	Molybdenum	ppm	ASTM D5185m		39	42	38
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		31	61	63
	Calcium	ppm	ASTM D5185m		3207	3178	2998
	Phosphorus	ppm	ASTM D5185m		895	958	907
	Zinc	ppm	ASTM D5185m		1030	1089	1040
	Sulfur	ppm	ASTM D5185m		4066	3910	4265
	Acid Number (AN)		ASTM D8045		1.41	1.30	1.25
		-					

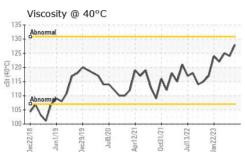
Visc @ 40°C cSt ASTM D445

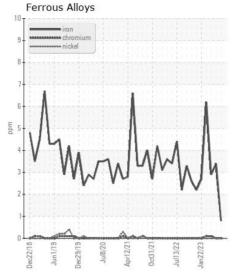
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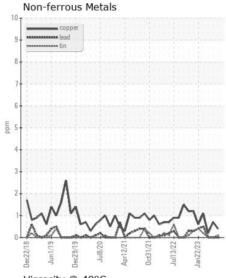
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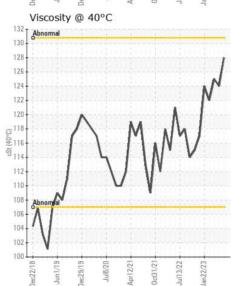
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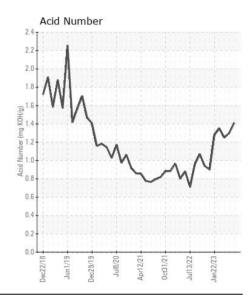














Certificate L2367

Laboratory Sample No.

: MW05863163 Lab Number : 05863163 Unique Number : 10497628 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

Tested Diagnosed

: 02 Jun 2023 : 05 Jun 2023

: 05 Jun 2023 - Wes Davis

PO BOX 391 LEMONT, IL US 60439

Contact: RHETT DANIEL

ILLINOIS MARINE TOWING

rdaniel@imtowing.com T: (630)280-4926

F: (630)739-2041

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)