WEAR CONTAMINATION **FLUID CONDITION**

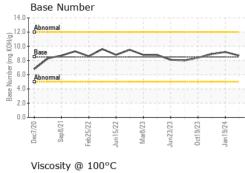
NORMAL NORMAL NORMAL

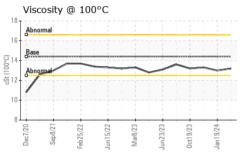
Machine Id

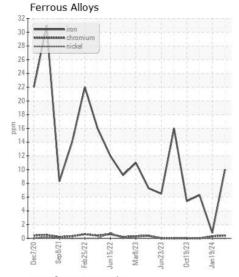
BRANDI ANN

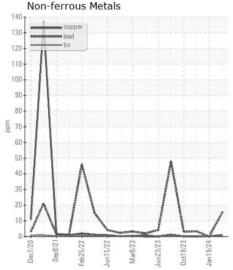
Component Starboard Genset

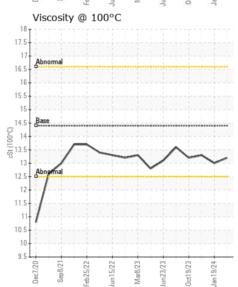
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		MW0047951	MW0048213	MW004793
	Sample Date		Client Info		18 Mar 2024	19 Jan 2024	04 Dec 202
	Machine Age	hrs	Client Info		13749	13124	12633
	Oil Age	hrs	Client Info		625	491	533
	Filter Age	hrs	Client Info		625	491	533
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>50	10	<1	6
WEAR	Chromium	ppm	ASTM D5185m		<1	<1	0
All component wear rates are normal.	Nickel		ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	0	0
	Silver		ASTM D5185m	<u> </u>	0	0	0
	Aluminum	ppm	ASTM D5185m		5	2	4
	Lead	ppm	ASTM D5185m		ອ 15	0	3
	Copper	ppm	ASTM D5185m		1	<1	0
	Tin	ppm	ASTM D5185m		- <1	0	<1
	Vanadium	ppm	ASTM D5185m	710	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	5	5
There is no indication of any contemporation in the city	Potassium	ppm	ASTM D5185m	>20	2	<1	1
There is no indication of any contamination in the oil.	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	6.2	6.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	23.1	23.2
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	0	<1	0
	Boron	ppm	ASTM D5185m		314	359	320
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		2	2	0
	Molybdenum	ppm	ASTM D5185m		143	132	132
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m	450	684	654	702
	Calcium	ppm	ASTM D5185m		1689	1428	1536
	Phosphorus	ppm	ASTM D5185m		744	684	750
	Zinc	ppm	ASTM D5185m		905	853	858
	Sulfur	ppm	ASTM D5185m		2747	2421	2449
	Oxidation	Abs/.1mm	*ASTM D7414		18.6	16.4	16.8
	Base Number (BN)				8.7	9.2	8.9

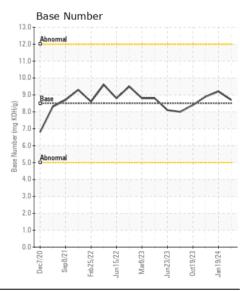














Certificate L2367

Sample No.

Laboratory

: MW0047951 Lab Number : 06124722 Unique Number: 10938873 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Mar 2024 : 22 Mar 2024 **Tested**

: 23 Mar 2024 - Don Baldridge Diagnosed

ARTCO - ADM AG SERVICES & OIL SEEDS

2505 BLUFF ROAD MT VERNON, IN US 47620

Contact: JOE FLOYD joseph.floyd@adm.com

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)

Report Id: ARTMTV [WUSCAR] 06124722 (Generated: 03/23/2024 14:51:04) Rev: 1

Contact/Location: JOE FLOYD - ARTMTV

T:

F: