WEAR CONTAMINATION FLUID CONDITION

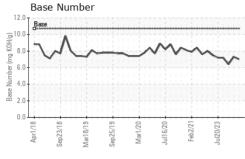
NORMAL NORMAL NORMAL

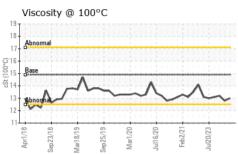
LEE SYNNOTT

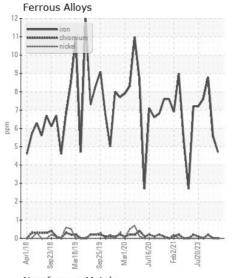
[LEE SYNNOTT] 008 523550-8

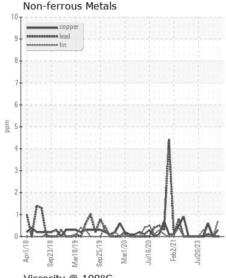
Component Starboard Genset

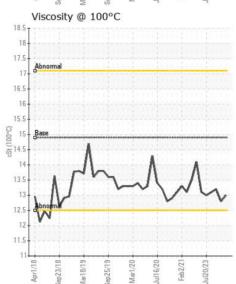
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		MW0055431	MW0055522	MW0055429
Resample at the next service interval to monitor.	Sample Date		Client Info		30 Nov 2023	28 Oct 2023	25 Sep 202
	Machine Age	hrs	Client Info		21505	21117	20712
	Oil Age	hrs	Client Info		388	405	409
	Filter Age	hrs	Client Info		388	405	409
	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	5	6	9
	Chromium	ppm	ASTM D5185m		0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>5	0	0	0
	Aluminum	ppm	ASTM D5185m		1	1	2
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		<1	0	<1
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ONT ANIMATION							
CONTAMINATION	Silicon	ppm	ASTM D5185m		4	4	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	<1	3
	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol	%	*ASTM D7844		NEG	NEG 0.1	NEG 0.1
	Soot % Nitration	Abs/cm	*ASTM D7624	>20	0.1 6.8	0.1 7.2	0.1 6.8
	Sulfation	Abs/.1mm	*ASTM D7624		19.6	19.7	19.3
	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		*Visual	>0.1	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		2	<1	0
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		368	380	439
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	3
	Molybdenum	ppm	ASTM D5185m		62	66	77
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		294	311	318
	Calcium	ppm	ASTM D5185m		1766	2109	2113
	Phosphorus	ppm	ASTM D5185m		1035	1160	1126
	Zinc	ppm	ASTM D5185m		1258	1479	1392
	Sulfur	ppm	ASTM D5185m		3555	4130	4351
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	14.9	14.5
	Base Number (BN)		ASTM D2896		7.0	7.3	6.4

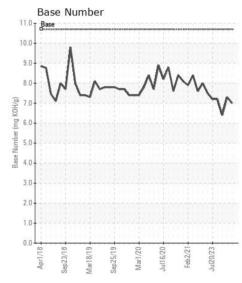














Certificate L2367

Report Id: INGPAD [WUSCAR] 06084195 (Generated: 02/19/2024 01:36:09) Rev: 1

Laboratory Sample No.

Lab Number : 06084195

: MW0055431 Unique Number : 10871640 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Feb 2024 : 09 Feb 2024 **Tested**

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Diagnosed

: 12 Feb 2024 - Don Baldridge

INGRAM BARGE 900 S 3RD ST PADUCAH, KY US 42003

F: (615)695-3697

Contact: JEFF BISHOP

jeff.bishop@ingrambarge.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.

T: