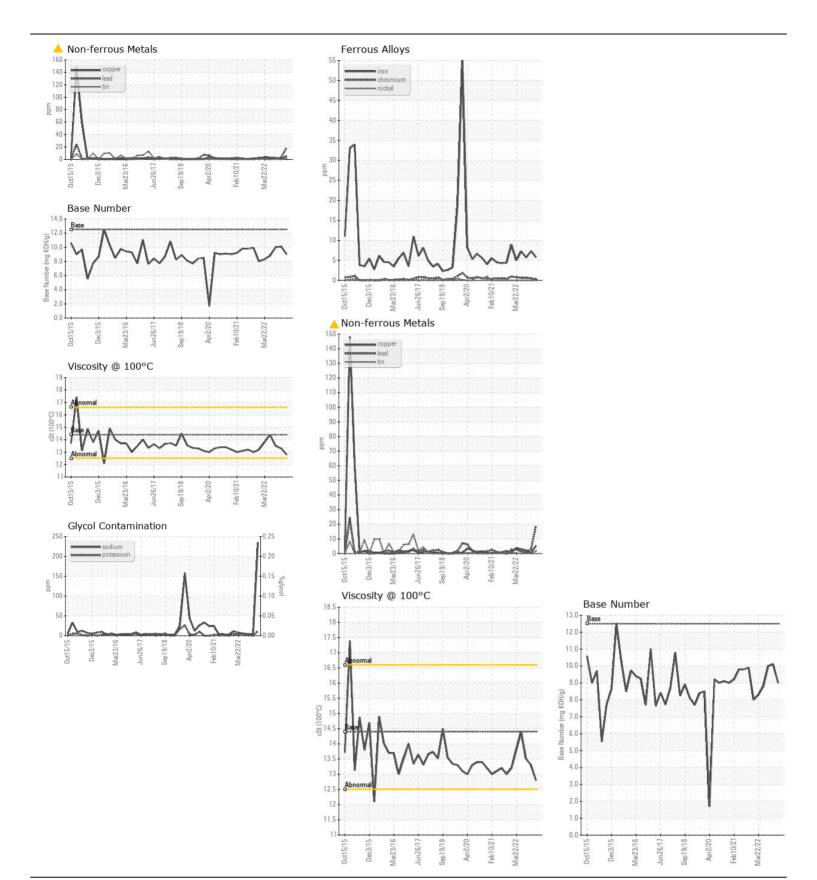
WEAR CONTAMINATION **FLUID CONDITION**

ABNORMAL ABNORMAL ABNORMAL

MISS IRENE (S/N 83091600)

Component Main Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0727978	WC0720245	WC062626
	Sample Date		Client Info		01 May 2023	07 Dec 2022	05 Jul 202
	Machine Age	hrs	Client Info		33482	31871	29433
	Oil Age	hrs	Client Info		500	500	0
	Filter Age	hrs	Client Info		500	500	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>75	6	7	6
	Chromium	ppm	ASTM D5185m	>8	<1	<1	<1
The lead level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	2	6
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		3	3	3
	Lead	ppm	ASTM D5185m		<u></u> 19	3	<1
	Copper	ppm	ASTM D5185m	>80	5	<1	2
	Tin	ppm	ASTM D5185m	>14	2	0	<1
	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	>20	7	5	8
	Potassium	ppm	ASTM D5185m		, ▲ 12	0	1
Sodium and/or potassium levels are high. Test for glycol is negative.	Fuel	ррпп	WC Method	>4.0	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol	%	*ASTM D2982	70.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.2	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	6.6	9.1	8.9
	Sulfation	Abs/.1mm	*ASTM D7415		20.6	24.9	23.5
	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	Codium		ACTM DE10Em	. 75	A 02E	А	4
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m		235 204	4 287	4 220
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		155	105	84
	Manganese	ppm	ASTM D5185m	200	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	0	707	655	710
	Calcium	ppm	ASTM D5185m		1667	1649	1759
	Phosphorus	ppm	ASTM D5185m		720	723	740
	Zinc	ppm	ASTM D5185m		876	881	885
	Sulfur	ppm	ASTM D5185m		2882	3016	3631
	Oxidation	Abs/.1mm	*ASTM D7414		15.6	19.5	17.5
	Base Number (BN)				9.0	10.1	10
	Visc @ 100°C	cSt	ASTM D445		12.8	13.3	13.5







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WC0727978 : 05839730 : 10458533

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

: 05 May 2023 : 10 May 2023 : Jonathan Hester Diagnostician

Test Package : FLEET (Additional Tests: Glycol)

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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