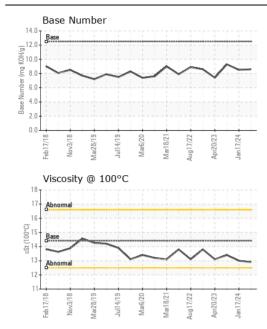
**WEAR** CONTAMINATION **FLUID CONDITION** 

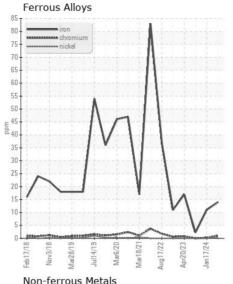
**NORMAL NORMAL NORMAL** 

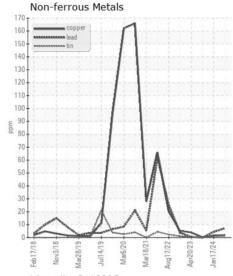
Machine Id BROMLEY

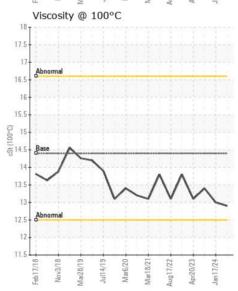
Component Port Main Engine

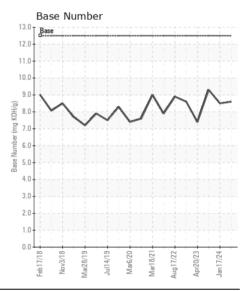
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		MW0045703	MW0062713	MW004571
	Sample Date		Client Info		13 Mar 2024	17 Jan 2024	04 Nov 202
	Machine Age	hrs	Client Info		9107	8038	7755
	Oil Age	hrs	Client Info		1000	750	1000
	Filter Age	hrs	Client Info		1000	750	1000
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
V.C.A.D.			AOTM DE LOE			4.4	
VEAR	Iron	ppm	ASTM D5185m		14	11	2
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	<1	0
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		3	1	<1
	Lead	ppm	ASTM D5185m		7	4	0
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		2	2 <1	<1 0
		ppm		>14	1		
	Vanadium White Metal	ppm	*Visual	NONE	<1 NONE	0 NONE	0 NONE
	Yellow Metal	scalar	*Visual	NONE	NONE NONE	NONE	
<u></u>	Tellow Metal	scalar	VISUAI	NONE	INOINE	INOINE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	3	4
	Potassium	ppm	ASTM D5185m	>20	2	<1	2
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		0.4	0.4	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	8.6	6.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	21.5	21.5
	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	Sodium	nnm	ASTM D5185m	- 75	3	3	<1
-LOID CONDITION	Boron	ppm	ASTM D5185m		50	97	288
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 ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		54	51	80
	Manganese	ppm	ASTM D5185m	250	<1	<1	0
	Magnesium	ppm	ASTM D5185m	0	592	489	526
	Calcium	ppm	ASTM D5185m		1614	1417	1864
	Phosphorus	ppm	ASTM D5185m		1132	868	888
	Zinc	ppm	ASTM D5185m		1300	1034	1161
	Sulfur	ppm	ASTM D5185m		3312	2489	3215
	Oxidation	Abs/.1mm	*ASTM D7414		18.9	18.2	16.1
	Base Number (BN)				8.6	8.5	9.3
					7.0	0.0	0.0













Certificate L2367

Laboratory Sample No. Unique Number: 10939574

Lab Number : 06125423

Test Package : MAR 2

: MW0045703

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

Received : 21 Mar 2024 : 22 Mar 2024 **Tested** Diagnosed

: 25 Mar 2024 - Don Baldridge

**C & B MARINE** 

50 E RIVERCENTER BLVD, SUITE 1180 COVINGTON, KY

US 41011 Contact: DAVID WESTRICH

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. dwestrich@carlislebray.com T: (812)290-4063 F: (859)655-7504

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

Submitted By: ?