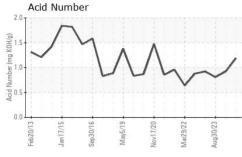
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

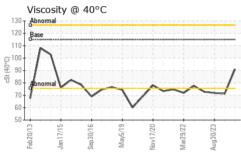
Machine Id

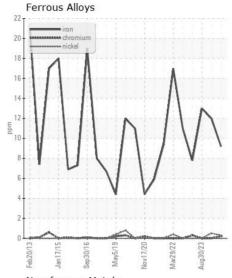
TWIN DISC MV JL BRADEN

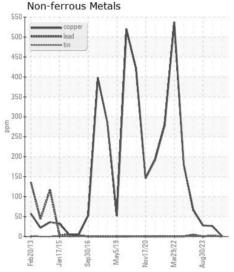
Starboard Reduction Gear

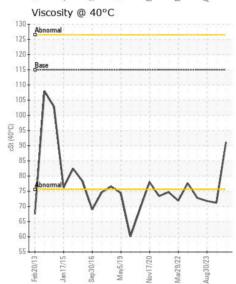
DIESEL ENGINE OIL SAE 15W40 (GAL)					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		MW0069926	MW0045609	MW0039004
	Sample Date		Client Info		21 May 2024	27 Jan 2024	30 Aug 2023
	Machine Age	hrs	Client Info		89595	88900	86505
	Oil Age	hrs	Client Info		500	2000	2000
	Filter Age	hrs	Client Info		500	2000	2000
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>150	9	12	13
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	0	0
	Nickel	ppm	ASTM D5185m	>10	<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		<1	<1	0
	Aluminum	ppm	ASTM D5185m	>25	3	4	3
	Lead	ppm	ASTM D5185m	>100	0	2	0
	Copper	ppm	ASTM D5185m	>50	1	26	28
	Tin	ppm	ASTM D5185m	>10	0	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	7	6	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	7	7
	Water		WC Method	>0.1	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	LIGHT	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODEF
	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	ppm	ASTM D5185m	>158	2	8	3
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m	250	290	315	331
	Barium	ppm	ASTM D5185m	10	0	0	2
	Molybdenum	ppm	ASTM D5185m	100	91	113	112
	Manganese	ppm	ASTM D5185m		<1	2	<1
	Magnesium	ppm	ASTM D5185m	450	552	658	626
	Calcium	ppm	ASTM D5185m	3000	1208	1401	1456
	Phosphorus	ppm	ASTM D5185m		552	788	817
	Zinc	ppm	ASTM D5185m	1350	628	893	921
	Sulfur	ppm	ASTM D5185m	4250	2262	2663	3280
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.19	0.92	0.81
	Visc @ 40°C	cSt	ASTM D445	115	91.1	71.2	71.8

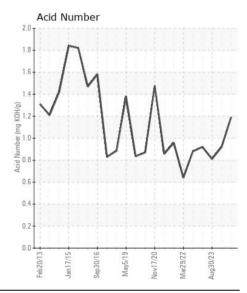














Laboratory Sample No.

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

: MW0069926 Lab Number : 06192962 Unique Number : 11049714

Received **Tested** Diagnosed

: 28 May 2024

: 30 May 2024 : 30 May 2024 - Sean Felton

C & B MARINE 50 E RIVERCENTER BLVD, SUITE 1180

COVINGTON, KY US 41011

Contact: DAVID WESTRICH dwestrich@carlislebray.com

T: (812)290-4063

Test Package : MAR 2 Certificate L2367 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: CBMMEL [WUSCAR] 06192962 (Generated: 05/30/2024 19:57:09) Rev: 1

Contact/Location: DAVID WESTRICH - CBMMEL

F: (859)655-7504