

MARK LINTON [SAM]

ONAN J180432133

Genset

DIESEL ENGINE OIL SAE 15W40 (1 GAL)

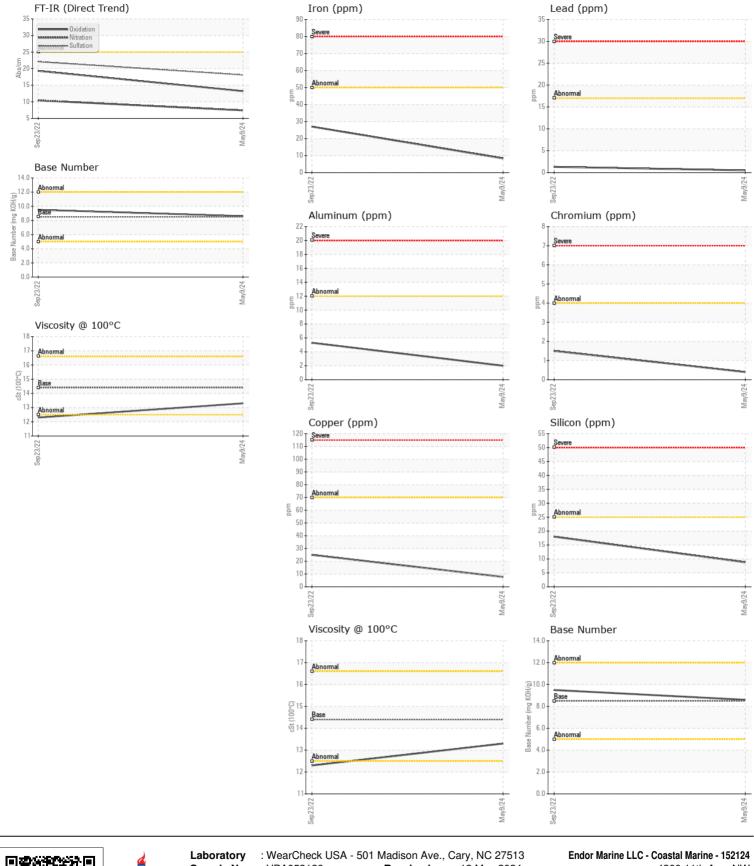
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		VPA053126	VPA043231	
	Sample Date		Client Info		09 May 2024	23 Sep 2022	
	Machine Age	hrs	Client Info		547	478	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>50	8	27	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		<1	2	
	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>5	0	<1	
	Aluminum	ppm	ASTM D5185m		2	5	
	Lead	ppm	ASTM D5185m		_ <1	1	
	Copper	ppm	ASTM D5185m		8	25	
	Tin	ppm	ASTM D5185m		ہ <1	<1	
	Vanadium	ppm	ASTM D5185m	210	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION						40	
	Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m		9 4	18 2	
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		۔ <1.0	<u> </u>	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	20.1	NEG	NEG	
	Soot %	%	*ASTM D7844		0.1	0.1	
	Nitration	Abs/cm	*ASTM D7644	> 20	7.4	10.4	
	Sulfation	Abs/.1mm	*ASTM D7024		18.1	22.1	
	Silt		*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar scalar	*Visual	NONE	NONE	NONE	
		scalar	*Visual	NORML	NORML	NORML	
	Appearance Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.1	NEG	NEG	
FLUID CONDITION							
	Sodium	ppm	ASTM D5185m		0	4	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		105	44	
	Barium	ppm	ASTM D5185m		3	8	
	Molybdenum	ppm	ASTM D5185m	100	16	57	
	Manganese	ppm	ASTM D5185m		1	4	
	Magnesium	ppm	ASTM D5185m		691	539	
	Calcium	ppm	ASTM D5185m		1447	1990	
	Phosphorus	ppm	ASTM D5185m		820	1002	
	Zinc	ppm	ASTM D5185m		890	1247	
	Sulfur	ppm	ASTM D5185m		3358	3878	
	Oxidation	Abs/.1mm	*ASTM D7414		13.2	19.3	
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.6	9.5	
	Vies @ 10000	- 0+	AOTA DAAF	444		100	

Visc @ 100°C cSt

12.3

13.3

ASTM D445 14.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Endor Marine LLC - Coastal Marine - 152124 Sample No. Received 4300 11th Ave. NW : VPA053126 : 13 May 2024 Lab Number : 06176819 Tested SEATTLE, WA : 14 May 2024 Unique Number : 11022872 Diagnosed : 14 May 2024 - Sean Felton US 98107 Test Package : MOB 1 (Additional Tests: TBN) Contact: WILLOW YANARELLA Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. service@coastalmarineengine.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (206)784-3703 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (206)784-8823