WEAR CONTAMINATION FLUID CONDITION

NORMAL

MARGINAL

NORMAL

Area

## **SURVEY - SEAVER [SURVEY-SEAVER]**

## ONAN G170215864

Genset

DIESEL ENGINE OIL SAF 15W40 (1 GAL)

DIESEL ENGINE OIL SAE 15W40 (1 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		VPA044339		
	Sample Date		Client Info		08 Jul 2024		
	Machine Age	hrs	Client Info		543		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				MARGINAL		
WEAD			AOTM DE CO				
WEAR	Iron	ppm	ASTM D5185m		37		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m	>2	<1		
	Titanium	ppm	ASTM D5185m	_	<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		6		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		6		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	<b>4</b> 26		
	Potassium	ppm	ASTM D5185m	>20	6		
Elemental level of silicon (Si) above normal indicating ingress of seal material.	Fuel		WC Method	>4.0	<1.0		
	Water		WC Method	>0.1	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	8.6		
	Sulfation	Abs/.1mm	*ASTM D7415		18.1		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	<b>Emulsified Water</b>		*Visual	>0.1	NEG		
ELLUD GONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		25		
	Barium	ppm	ASTM D5185m		3		
	Molybdenum	ppm	ASTM D5185m	100	46		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		652		
	Calcium	ppm	ASTM D5185m		1402		
	Phosphorus	ppm	ASTM D5185m		723		
	Zinc	ppm	ASTM D5185m		966		
	Sulfur	ppm	ASTM D5185m		4023		
	Oxidation	Abs/.1mm	*ASTM D7414		13.2		
	Base Number (BN)				6.8		
	Visc @ 100°C	cSt	ASTM D445	14.4	12.63		







Certificate L2367

Laboratory Sample No.

Lab Number : 06232749

: VPA044339 Unique Number : 11116242

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

: 10 Jul 2024

: 10 Jul 2024

: 10 Jul 2024 - Doug Bogart

US 34677 Contact: MARK WARREN oldsmar@suncoastdmi.com T: (813)475-5942

Suncoast Diesel Marine Inc.

610 Mount Vernan St

OLDSMAR, FL

F: (813)475-5943

\* - 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)