

**WEAR CONTAMINATION FLUID CONDITION** 

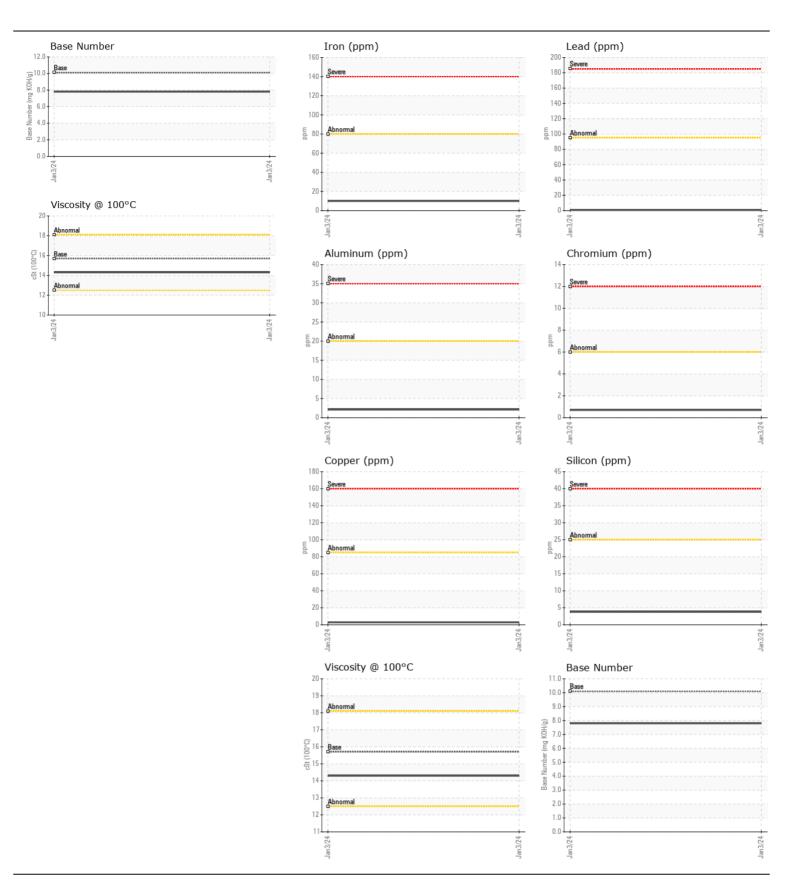
**NORMAL NORMAL** NORMAL

**LAMPHER** 

**VOLVO PENTA 1012387662** 

Starboard Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		VPA056835		
	Sample Date		Client Info		03 Jan 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
/EAR	Iron	ppm	ASTM D5185m	<b>√</b> 8∩	10		
LAN	Chromium		ASTM D5185m		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		1		
		ppm					
	Titanium Silver	ppm	ASTM D5185m		<1		
		ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m	>9	1		
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	7		
	Fuel		WC Method	>4.0	<1.0		
	Water		WC Method	>0.1	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.8		
	Nitration	Abs/cm	*ASTM D7624	>20	7.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0		
	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>	scalar	*Visual	>0.1	NEG		
LUD CONDITION	0 "		AOTA DE LOS				
LUID CONDITION	Sodium	ppm	ASTM D5185m	016	167		
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.	Boron	ppm	ASTM D5185m		167		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	1.2	5		
	Manganese	ppm	ASTM D5185m	04	<1		
	Magnesium	ppm	ASTM D5185m		58		
	Calcium	ppm	ASTM D5185m		2111		
	Phosphorus	ppm	ASTM D5185m		870		
	Zinc	ppm	ASTM D5185m		1181		
	Sulfur	ppm	ASTM D5185m		3517		
	Oxidation	Abs/.1mm	*ASTM D7414		17.2		
	Base Number (BN)	ma KOH/a	ASTM D2896	1() 1	7.8		







Certificate L2367

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

: VPA056835 : 06055135 : 10821084

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 09 Jan 2024 Diagnosed

: 10 Jan 2024 Diagnostician : Sean Felton

Test Package : MOB 1 ( Additional Tests: TBN )

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)

**Aqua Yacht Harbor Marina** 

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