

## MARK LINTON [SAM] VOLVO PENTA A1047484

## Port Diesel Engine

VOLVO PENTA SAE 15W40 (6 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Decements at the next convice interview to requite r	Sample Number		Client Info		VPA053123	VPA043228	
Resample at the next service interval to monitor.	Sample Date		Client Info		09 May 2024	23 Sep 2022	
	Machine Age	hrs	Client Info		352	270	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m		24	33	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>6	2	2	
	Nickel	ppm	ASTM D5185m	>2	3	4	
	Titanium	ppm	ASTM D5185m	>2	<1	<1	
	Silver	ppm	ASTM D5185m	>2	0	<1	
	Aluminum	ppm	ASTM D5185m	>20	8	14	
	Lead	ppm	ASTM D5185m	>95	3	6	
	Copper	ppm	ASTM D5185m	>85	15	24	
	Tin	ppm	ASTM D5185m	>9	2	4	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		12	27	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	3	
	Fuel		WC Method	>4.0	<1.0	<1.0	
	Water		WC Method	>0.1	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.3	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	6.7	10.1	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	20.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
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FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	6	
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		13	53	
	Barium	ppm	ASTM D5185m		2	<1	
	Molybdenum	ppm	ASTM D5185m		61	47	
	Manganese	ppm	ASTM D5185m		<1	2	
	Magnesium	ppm	ASTM D5185m		820	555	
	Calcium	ppm	ASTM D5185m		1363	2366	
	Phosphorus	ppm	ASTM D5185m		1027	1154	
	Zinc	ppm	ASTM D5185m		1159	1379	
	Sulfur	ppm	ASTM D5185m		3517	5824	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	17.3	

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445

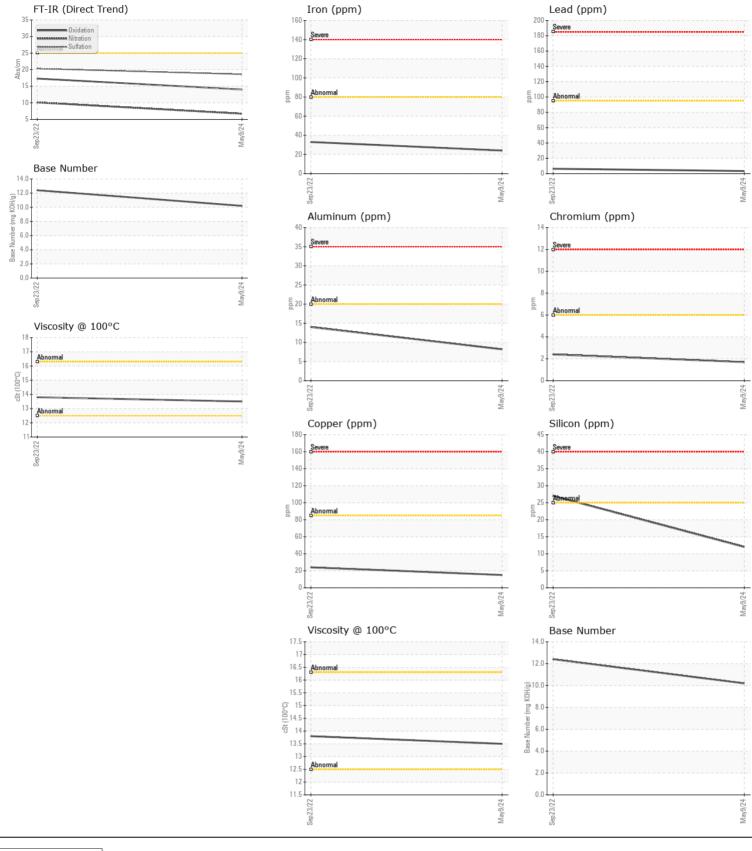
Visc @ 100°C cSt

12.4

13.8

10.2

13.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Endor Marine LLC - Coastal Marine - 152124 Sample No. Received 4300 11th Ave. NW : VPA053123 : 13 May 2024 Lab Number : 06176821 Tested SEATTLE, WA : 14 May 2024 : 14 May 2024 - Sean Felton US 98107 Unique Number : 11022874 Diagnosed 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