

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

JIM SHAFER [81530617] **VOLVO PENTA A1143219** Component

Starboard Diesel Engine VOLVO PENTA SAE 15W40 (20 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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.

			Nov2022	0ct2023		
SAMPLE INFORM	/ ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		VPA060484	VPA044833	
Sample Date		Client Info		24 Oct 2023	10 Nov 2022	
Machine Age	hrs	Client Info		113	70	
Oil Age	hrs	Client Info		40	70	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	5	10	
Chromium	ppm	ASTM D5185m	>6	<1	1	
Nickel	ppm	ASTM D5185m	>2	2	0	
Titanium	ppm	ASTM D5185m	>2	0	0	
Silver	ppm	ASTM D5185m	>2	0	1	
Aluminum	ppm	ASTM D5185m	>20	6	8	
_ead	ppm	ASTM D5185m	>95	3	7	
Copper	ppm	ASTM D5185m	>85	8	15	
Tin	ppm	ASTM D5185m	>9	<1	2	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	14	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		57	58	
Vanganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		969	847	
Calcium	ppm	ASTM D5185m		1000	1164	
Phosphorus	ppm	ASTM D5185m		1021	1031	
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		1279 3249	1176 3776	
	ppm					
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	22	
Sodium	ppm	ASTM D5185m	0.6	2	2	
Potassium	ppm	ASTM D5185m	>20	1	0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	4.5	5.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.1	20.5	
		ام م مالا م میں	limit/base	current	history1	history2
FLUID DEGRADA	ATION	method	iiiiii/base	ourront	motory	
FLUID DEGRADA	ATION Abs/.1mm	*ASTM D7414	>25	12.5	15.4	



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White Metal

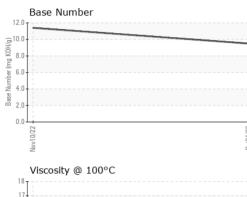
Yellow Metal

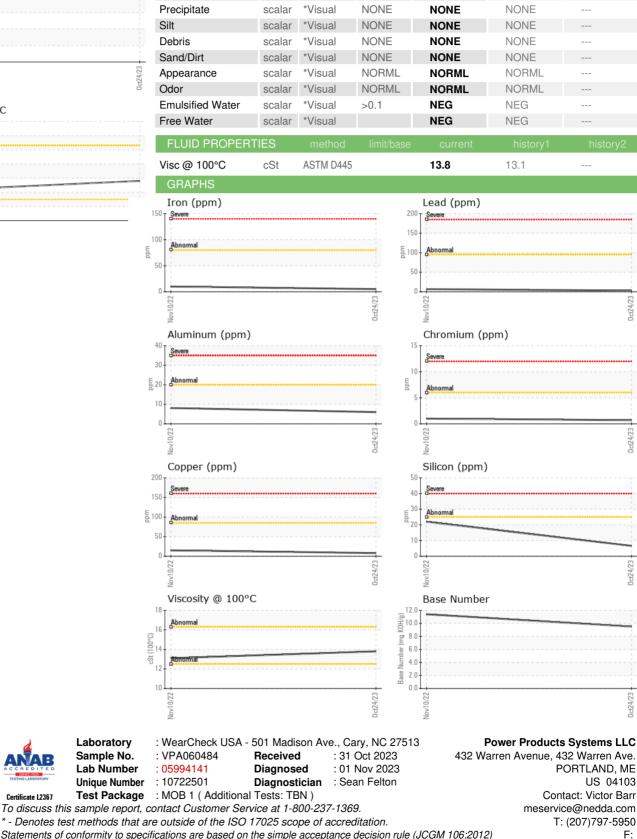
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NONE

NONE





NONE

NONE

NONE

NONE

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