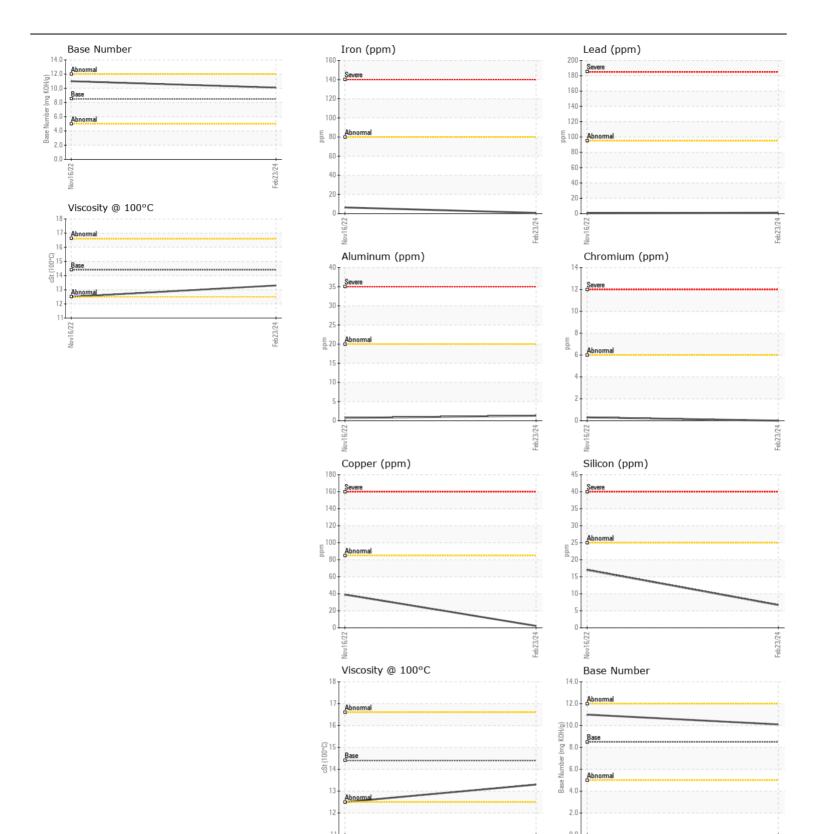
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL** NORMAL

## **MEYERHARDT** [MURRAY] **VOLVO PENTA 70112005048**

Component
Port Diesel Engine

DECOMMENDATION.					(_ )		
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		VPA058304	VPA041959	
	Sample Date	hvo	Client Info		23 Feb 2024	16 Nov 2022	
	Machine Age	hrs	Client Info		0	158	
	Oil Age	hrs	Client Info		0	0	
	Filter Age Oil Changed	hrs	Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A N/A	N/A	
	Sample Status		Chefft iiilo		NORMAL	NORMAL	
WEAD			AOTA D5405				
WEAR	Iron	ppm	ASTM D5185m		<1	6	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	
	Nickel	ppm		>2	<1	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		1	<1	
	Lead Copper	ppm	ASTM D5185m		1	<1 39	
	Copper	ppm	ASTM D5185m ASTM D5185m		2	<1 <1	
		ppm	ASTM D5185m	>9	<1 0	0	
	Vanadium White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
<u></u> -			Visuai				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	17	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	3	
There is no indication of any contamination in the oil.	Fuel		WC Method	>4.0	<1.0	<1.0	
	Water		WC Method	>0.1	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.1	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	4.3	6.0	
	Sulfation	Abs/.1mm	*ASTM D7415		17.8	20.5	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	<1	0	
	Boron	ppm	ASTM D5185m	250	7	1	
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.	Barium	ppm	ASTM D5185m	10	0	2	
	Molybdenum	ppm	ASTM D5185m	100	57	62	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m	450	900	925	
	Calcium	ppm	ASTM D5185m	3000	936	1090	
	Phosphorus	ppm	ASTM D5185m	1150	1066	1041	
	Zinc	ppm	ASTM D5185m	1350	1206	1223	
	Sulfur	ppm	ASTM D5185m	4250	3824	3881	
	Oxidation	Abs/.1mm	*ASTM D7414		13.1	15.2	
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	10.1	11.0	
	Visc @ 100°C	cSt	ASTM D445		13.3	12.5	





Laboratory Sample No.

Lab Number : 06100629 Unique Number: 10898859

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VPA058304

Received : 26 Feb 2024 **Tested** Diagnosed

: 26 Feb 2024 : 26 Feb 2024 - Doug Bogart

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)

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