WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL NORMAL NORMAL

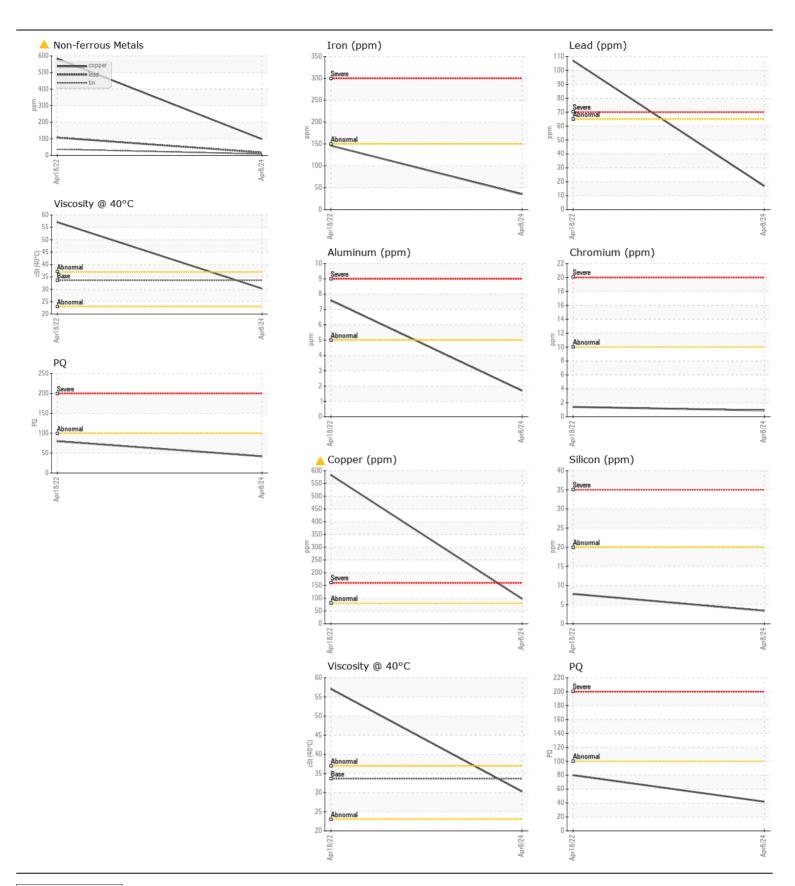
PAUL MANHEIM [DANIEL/502532]

VOLVO PENTA 50250246526 - INBOARD

Center Gearbox

TEXACO HAVOLINE ATF MERC/DEXRON (3 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number	00	Client Info	2.1111071011	VPA060424	VPA048968	
	Sample Date		Client Info		08 Apr 2024	18 Apr 2022	
	Machine Age	hrs	Client Info		0	500	
	Oil Age	hrs	Client Info		0	30	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				ABNORMAL	SEVERE	
WEAD							
WEAR	PQ		ASTM D8184		42	80	
Clutch wear is indicated.	Iron	ppm	ASTM D5185m		35	146	
	Chromium	ppm	ASTM D5185m		<1	1	
	Nickel	ppm	ASTM D5185m	>10	1	1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		<1	<1	
	Aluminum	ppm	ASTM D5185m		2	<u> 8</u>	
	Lead	ppm	ASTM D5185m		17	1 07	
	Copper	ppm	ASTM D5185m		<u> </u>	▲ 583	
	Tin	ppm	ASTM D5185m	>8	<u>^</u> 8	A 37	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	VLITE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3	8	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	0	
	Water		WC Method	>0.2	NEG	NEG	
	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	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	nnm	ASTM D5185m		<1	3	
	Boron	ppm	ASTM D5185m		59	19	
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		1	3	
	Molybdenum	ppm	ASTM D5185m		3	4	
	Manganese	ppm	ASTM D5185m		1	2	
	Magnesium	ppm	ASTM D5185m		15	262	
	Calcium	ppm	ASTM D5185m		118	2010	
	Phosphorus	ppm	ASTM D5185m		226	1116	
	Zinc	ppm	ASTM D5185m		75	1177	
	Sulfur	ppm	ASTM D5185m		1300	5315	
	Visc @ 40°C	cSt	ASTM D445	33.6	30.3	57.1	
	1100 @ 10 0	001			55.5	07	





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06152330

: VPA060424 Unique Number : 10982408

Received : 17 Apr 2024 **Tested** Diagnosed

: 19 Apr 2024 : 22 Apr 2024 - Sean Felton

Endor Marine LLC - Coastal Marine - 152124 4300 11th Ave. NW

SEATTLE, WA US 98107 Contact: WILLOW YANARELLA

Test Package : MOB 1 (Additional Tests: PQ) 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