



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[CROSS SERVICE]
 Machine Id
VOLVO PENTA 7008461362
 Component
Port Diesel Engine
 Fluid
VOLVO PENTA SAE 15W40 (8 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA057265	VPA044898	---
Sample Date		Client Info		12 Mar 2024	08 Mar 2023	---
Machine Age	hrs	Client Info		570	489	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	19	22	---
Chromium	ppm	ASTM D5185m	>6	1	1	---
Nickel	ppm	ASTM D5185m	>2	2	3	---
Titanium	ppm	ASTM D5185m	>2	0	0	---
Silver	ppm	ASTM D5185m	>2	1	2	---
Aluminum	ppm	ASTM D5185m	>20	2	2	---
Lead	ppm	ASTM D5185m	>95	<1	<1	---
Copper	ppm	ASTM D5185m	>85	37	57	---
Tin	ppm	ASTM D5185m	>9	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

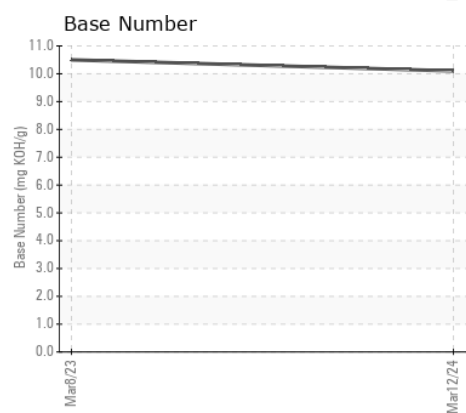
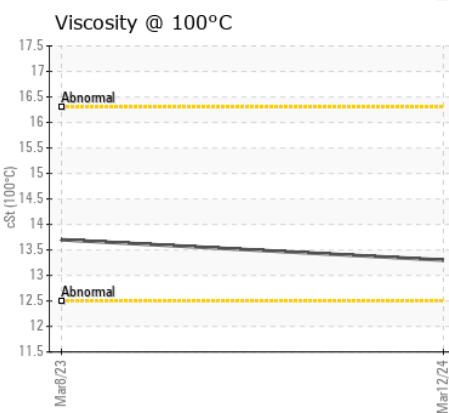
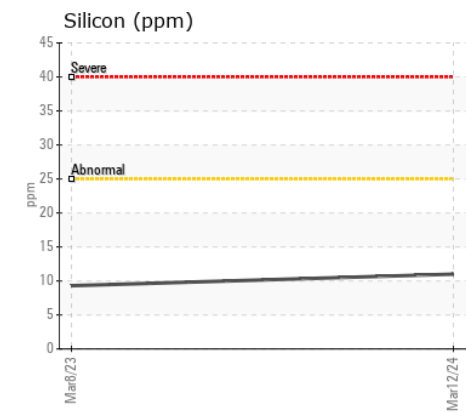
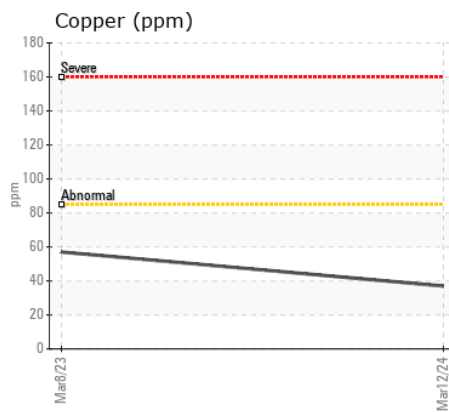
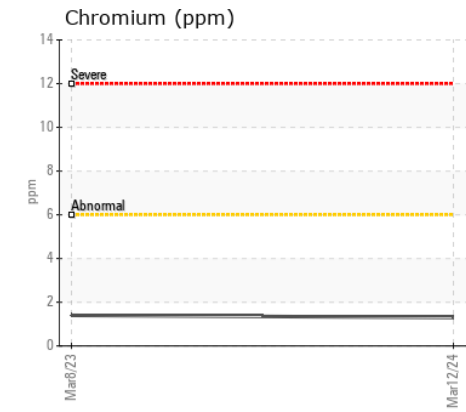
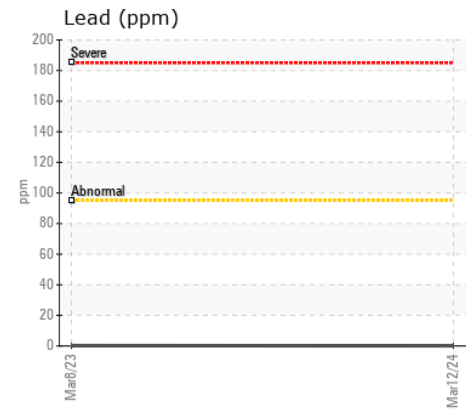
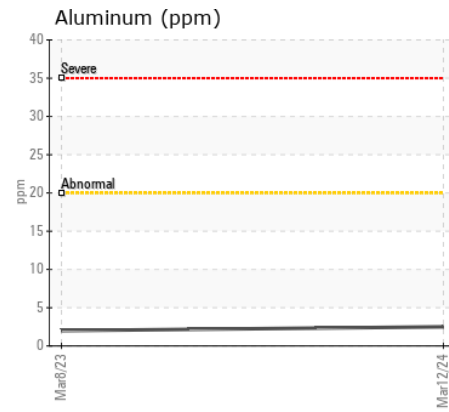
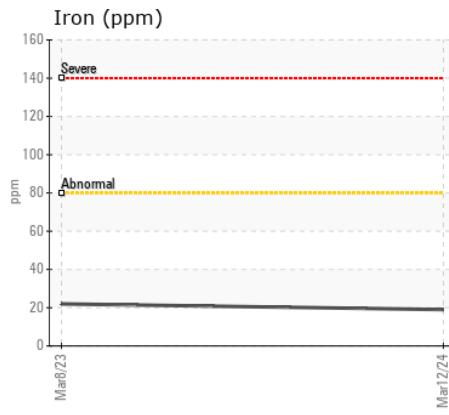
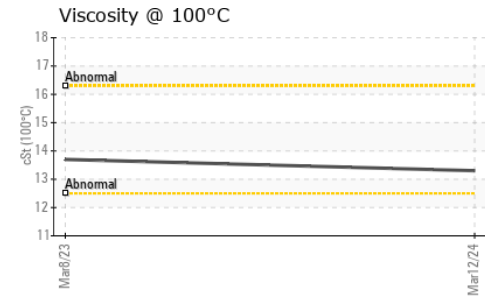
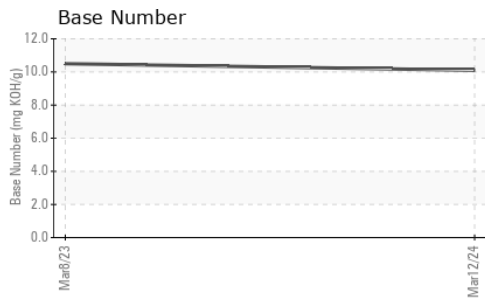
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	11	9	---
Potassium	ppm	ASTM D5185m	>20	<1	1	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844		0.6	0.8	---
Nitration	Abs/cm	*ASTM D7624	>20	6.2	7.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	20.6	---
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

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.

Sodium	ppm	ASTM D5185m		2	0	---
Boron	ppm	ASTM D5185m		6	<1	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		62	63	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		1002	940	---
Calcium	ppm	ASTM D5185m		1091	1129	---
Phosphorus	ppm	ASTM D5185m		1083	1040	---
Zinc	ppm	ASTM D5185m		1259	1232	---
Sulfur	ppm	ASTM D5185m		4704	3017	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	14.5	---
Base Number (BN)	mg KOH/g	ASTM D2896		10.1	10.5	---
Visc @ 100°C	cSt	ASTM D445		13.3	13.7	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA057265 **Received** : 18 Mar 2024
Lab Number : 06121343 **Tested** : 19 Mar 2024
Unique Number : 10930176 **Diagnosed** : 20 Mar 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

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Certificate L2367
 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)