



# VOLVO PENTA

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**MARK LINTON [SAM]**

Machine Id

**VOLVO PENTA 3940023988**

Component

**Port IPS**

Fluid

**GEAR OIL SAE 75W90 (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VPA053125</b>	VPA044796	VPA043238
Sample Date		Client Info		<b>09 May 2024</b>	13 Dec 2022	23 Sep 2022
Machine Age	hrs	Client Info		<b>352</b>	282	270
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>21</b>	9	13
Iron	ppm	ASTM D5185m	>200	<b>75</b>	39	38
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>1</b>	<1	1
Lead	ppm	ASTM D5185m		<b>0</b>	0	<1
Copper	ppm	ASTM D5185m		<b>8</b>	8	8
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

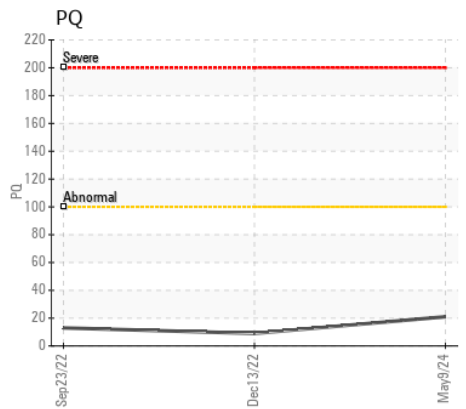
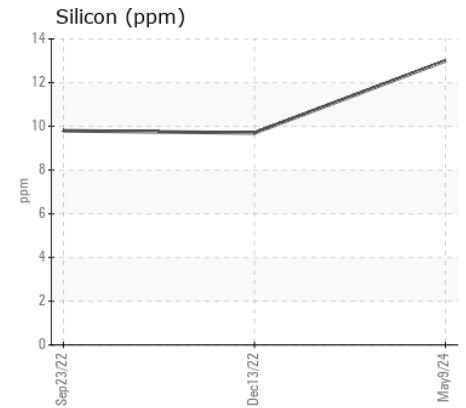
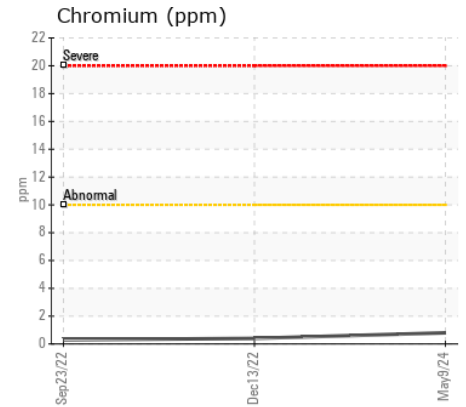
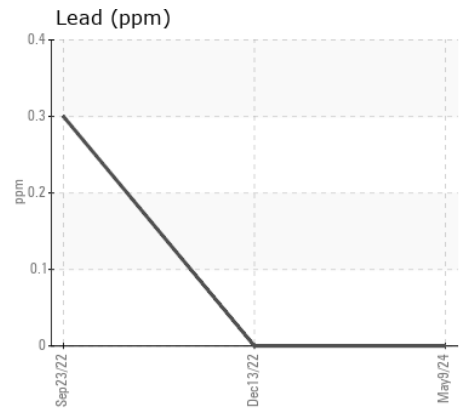
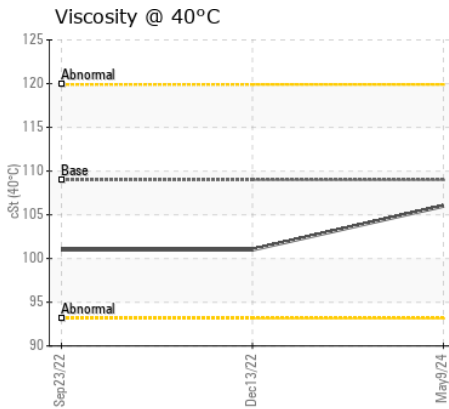
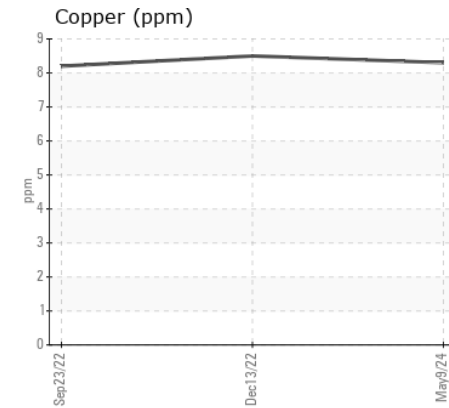
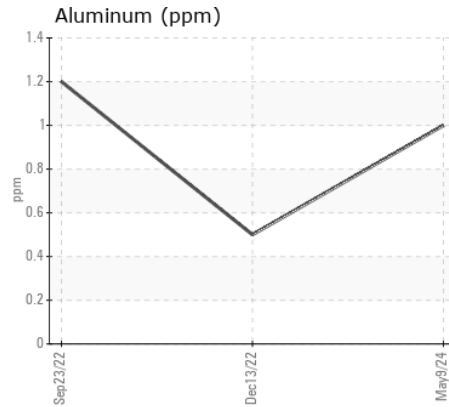
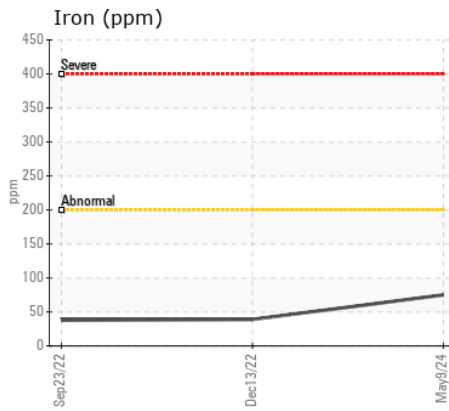
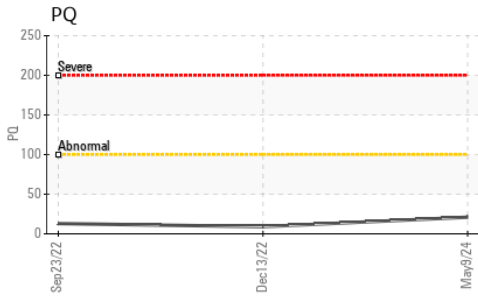
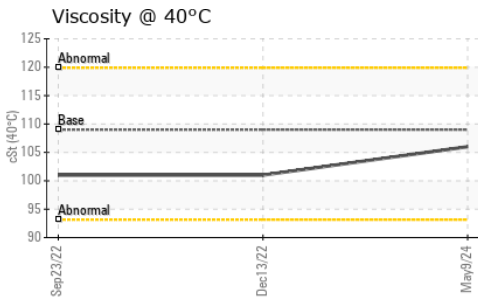
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		<b>13</b>	10	10
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>5</b>	2	3
Boron	ppm	ASTM D5185m	400	<b>324</b>	240	259
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	7	8
Manganese	ppm	ASTM D5185m		<b>3</b>	1	1
Magnesium	ppm	ASTM D5185m	12	<b>27</b>	108	116
Calcium	ppm	ASTM D5185m	150	<b>21</b>	111	115
Phosphorus	ppm	ASTM D5185m	1650	<b>1424</b>	1212	1321
Zinc	ppm	ASTM D5185m	125	<b>17</b>	146	153
Sulfur	ppm	ASTM D5185m	22500	<b>26709</b>	23989	25427
Visc @ 40°C	cSt	ASTM D445	109	<b>106</b>	101	101



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA053125 **Received** : 13 May 2024  
**Lab Number** : 06177494 **Tested** : 14 May 2024  
**Unique Number** : 11023547 **Diagnosed** : 15 May 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: PQ )

**Endor Marine LLC - Coastal Marine - 152124**  
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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)