



# VOLVO PENTA

## OIL ANALYSIS REPORT

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

Area  
**EVAN LIN [DANIEL/502923]**  
 Machine Id  
**VOLVO PENTA 3200000150**  
 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>VPA061865</b>	VPA045705	VPA035137
Sample Date		Client Info		<b>17 Apr 2024</b>	24 May 2023	13 Jan 2022
Machine Age	hrs	Client Info		<b>287</b>	249	185
Oil Age	hrs	Client Info		<b>0</b>	0	185
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>19</b>	16	23
Iron	ppm	ASTM D5185m	>200	<b>21</b>	23	50
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	3	0
Aluminum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	4
Lead	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m		<b>4</b>	10	23
Tin	ppm	ASTM D5185m		<b>0</b>	0	<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

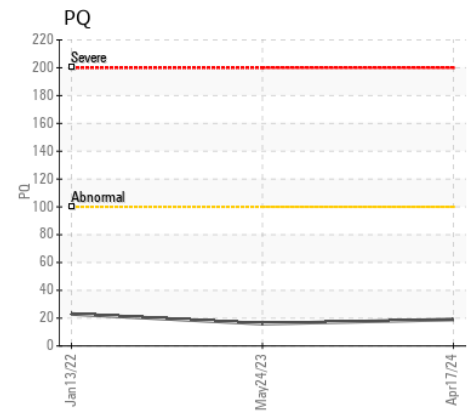
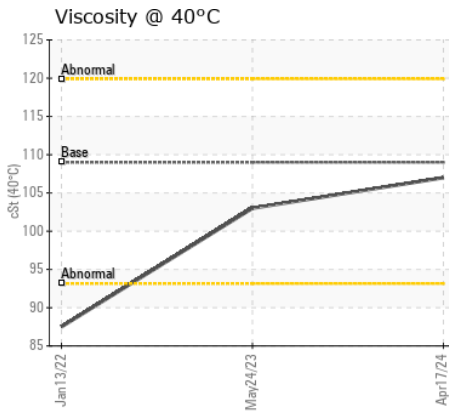
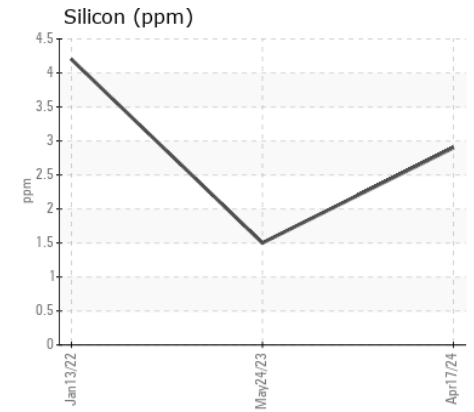
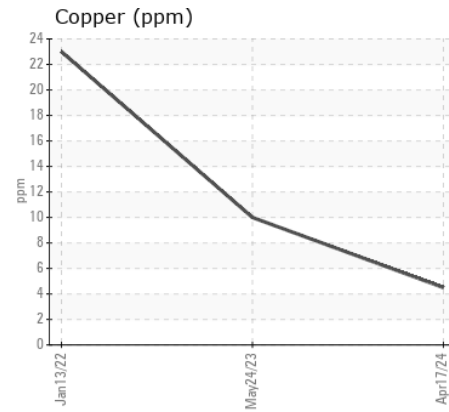
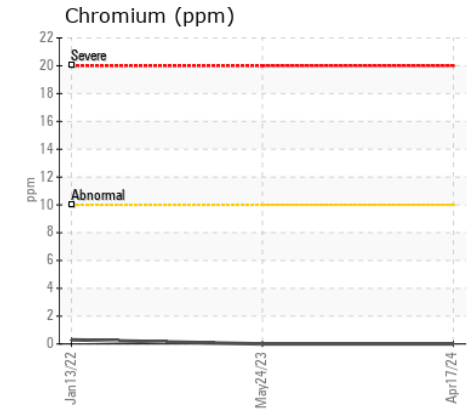
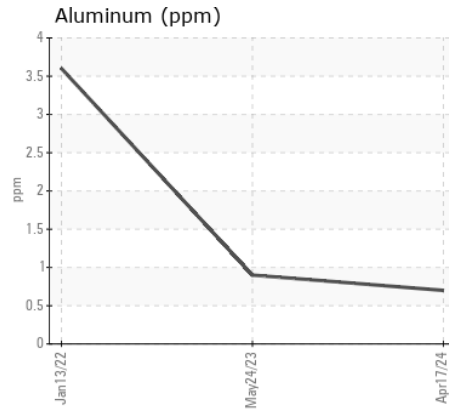
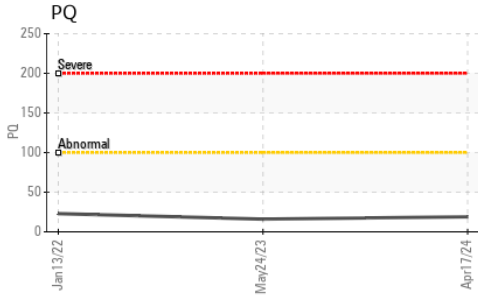
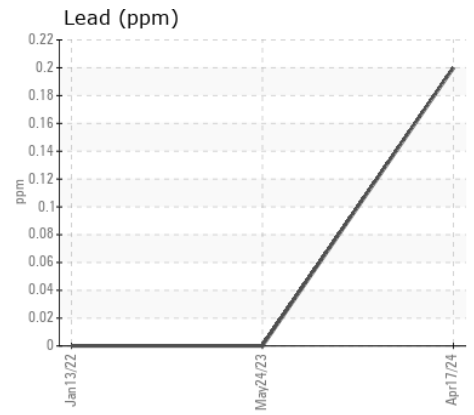
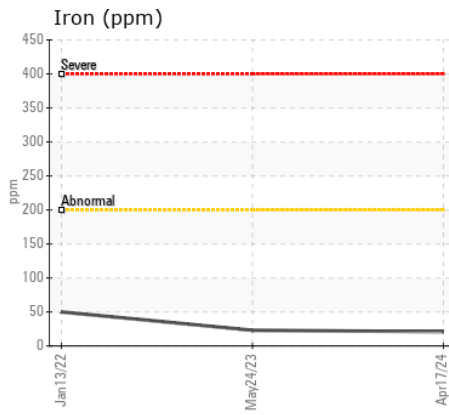
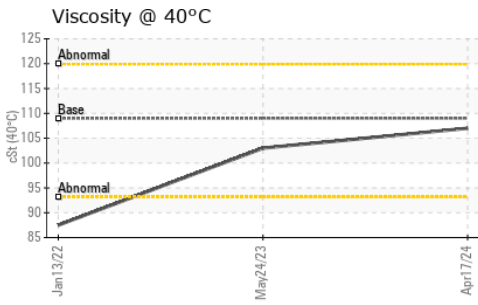
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		<b>3</b>	2	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	3
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>16</b>	2	3
Boron	ppm	ASTM D5185m	400	<b>326</b>	415	500
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	3
Magnesium	ppm	ASTM D5185m	12	<b>0</b>	235	910
Calcium	ppm	ASTM D5185m	150	<b>0</b>	3	24
Phosphorus	ppm	ASTM D5185m	1650	<b>1453</b>	1549	1540
Zinc	ppm	ASTM D5185m	125	<b>0</b>	0	8
Sulfur	ppm	ASTM D5185m	22500	<b>29747</b>	25056	21613
Visc @ 40°C	cSt	ASTM D445	109	<b>107</b>	103	87.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA061865 **Received** : 10 May 2024  
**Lab Number** : 06176291 **Tested** : 13 May 2024  
**Unique Number** : 11022344 **Diagnosed** : 14 May 2024 - Sean Felton  
**Test Package** : MOB 1 ( Additional Tests: PQ )

**Endor Marine LLC - Coastal Marine - 152124**  
 4300 11th Ave. NW  
 SEATTLE, WA  
 US 98107  
 Contact: WILLOW YANARELLA  
 service@coastalmarineengine.com  
 T: (206)784-3703  
 F: (206)784-8823

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)