



# VOLVO PENTA

## OIL ANALYSIS REPORT

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

Area  
**HAL KAUFMAN [MATTHEW DOW]**

Machine Id  
**VOLVO PENTA 3194003545**

Component  
**Port IPS**

Fluid  
**GEAR OIL SAE 75W90 (4 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VPA054841</b>	VPA056585	VPA035408
Sample Date		Client Info		<b>26 Jun 2024</b>	05 May 2023	09 Jan 2022
Machine Age	hrs	Client Info		<b>420</b>	390	373
Oil Age	hrs	Client Info		<b>30</b>	17	17
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>14</b>	14	16
Iron	ppm	ASTM D5185m	>275	<b>4</b>	2	3
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	<1	2
Lead	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>30	<b>&lt;1</b>	1	2
Tin	ppm	ASTM D5185m	>3	<b>0</b>	0	0
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

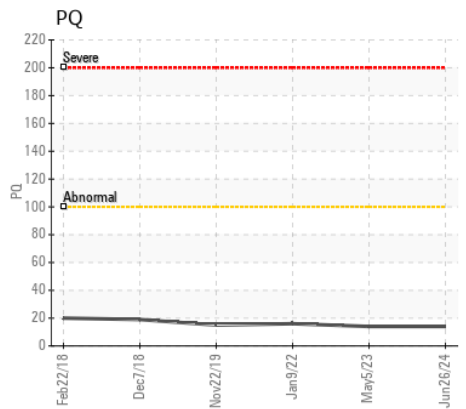
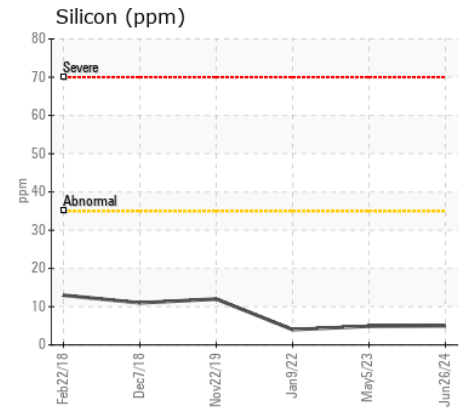
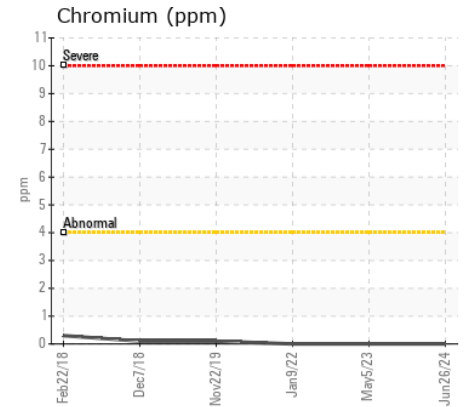
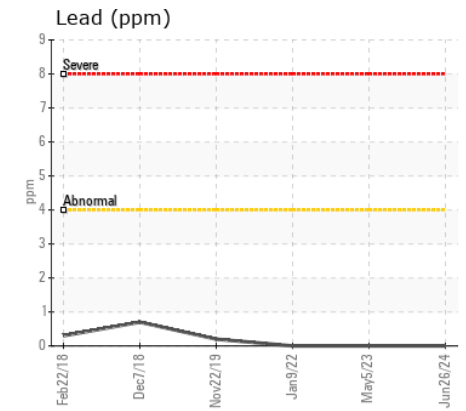
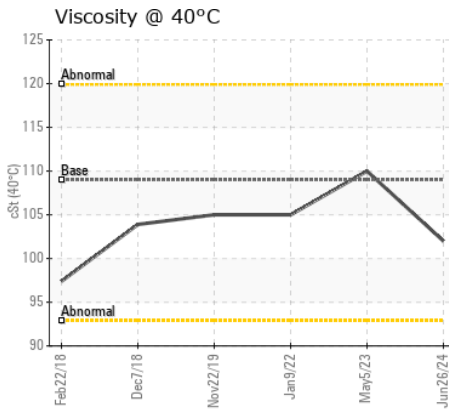
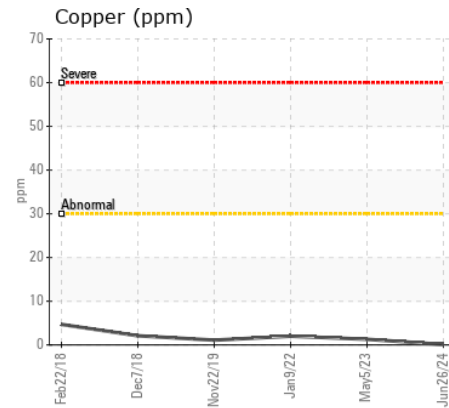
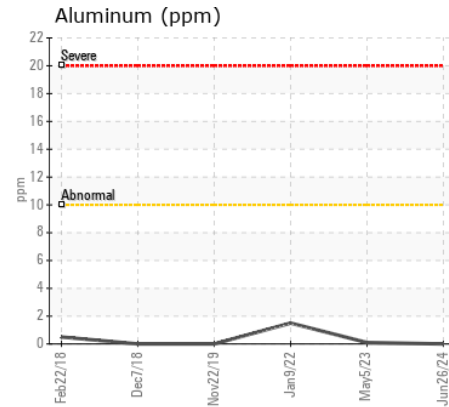
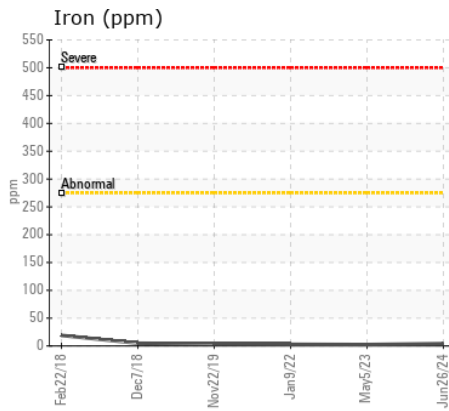
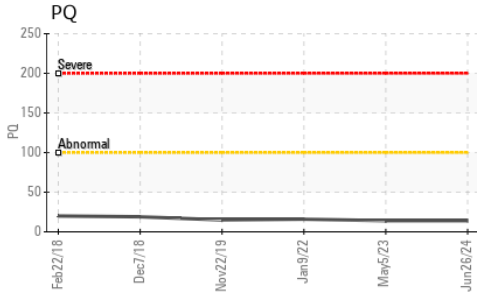
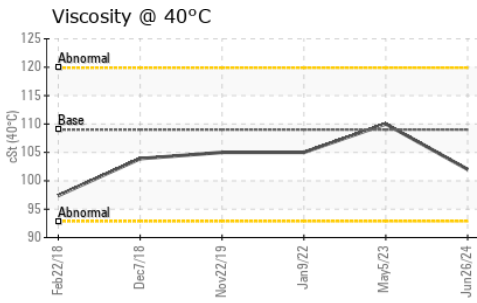
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>5</b>	5	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</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>&lt;1</b>	<1	0
Boron	ppm	ASTM D5185m	400	<b>325</b>	304	314
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	12	<b>5</b>	0	6
Calcium	ppm	ASTM D5185m	150	<b>4</b>	2	<1
Phosphorus	ppm	ASTM D5185m	1650	<b>1485</b>	1324	1311
Zinc	ppm	ASTM D5185m	125	<b>10</b>	0	0
Sulfur	ppm	ASTM D5185m	22500	<b>29558</b>	25056	19636
Visc @ 40°C	cSt	ASTM D445	109	<b>102</b>	110	105



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA054841 **Received** : 03 Jul 2024  
**Lab Number** : 06227866 **Tested** : 05 Jul 2024  
**Unique Number** : 11111359 **Diagnosed** : 07 Jul 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: PQ )

**Mobile Marine Services Inc**  
 01032 Advance Rd South  
 EAST JORDAN, MI  
 US 49727  
 Contact: Duane Kujat  
 mobilemarine@twin-valley.net  
 T: Phone  
 F:

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)