



# VOLVO PENTA

## OIL ANALYSIS REPORT

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

Area  
**PAT LANCASTER [MATTHEW DOW]**  
Machine Id  
**VOLVO PENTA 3194008194**  
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>VPA061917</b>	VPA042823	VPA035404
Sample Date		Client Info		<b>21 May 2024</b>	01 Dec 2022	11 Jan 2022
Machine Age	hrs	Client Info		<b>628</b>	615	600
Oil Age	hrs	Client Info		<b>13</b>	15	28
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>15</b>	11	34
Iron	ppm	ASTM D5185m	>275	<b>3</b>	6	8
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>4	<b>0</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	1
Lead	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>30	<b>0</b>	<1	1
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

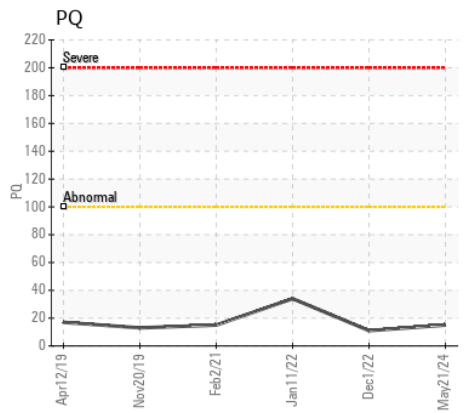
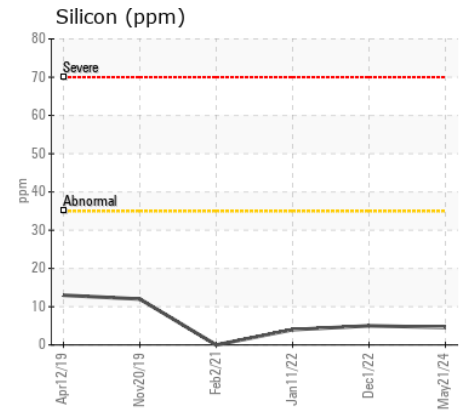
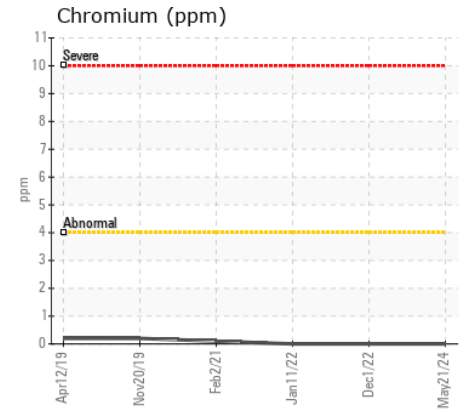
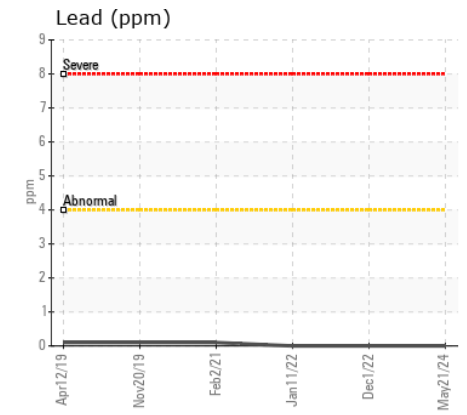
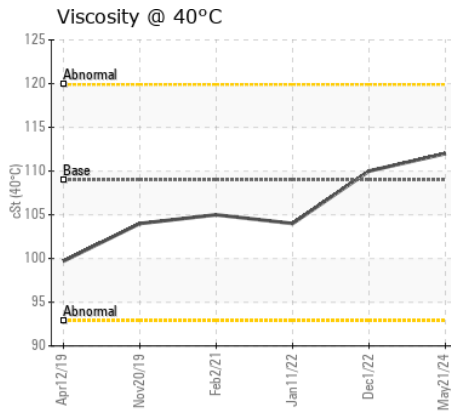
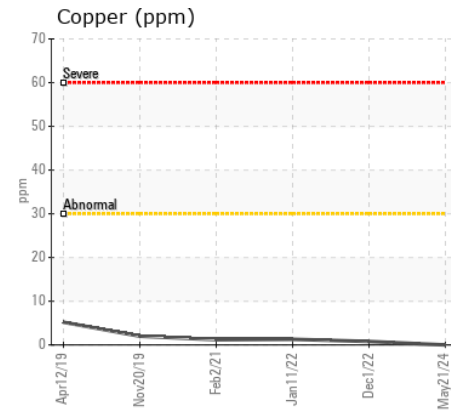
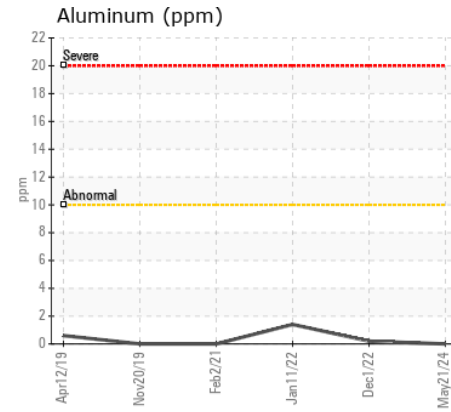
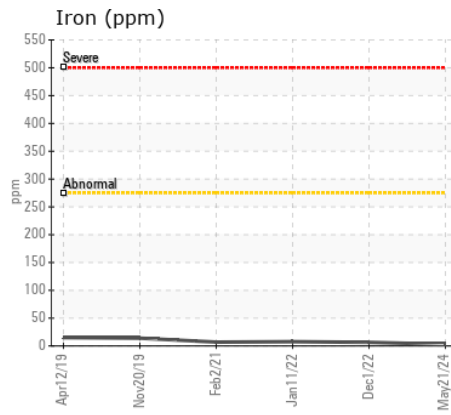
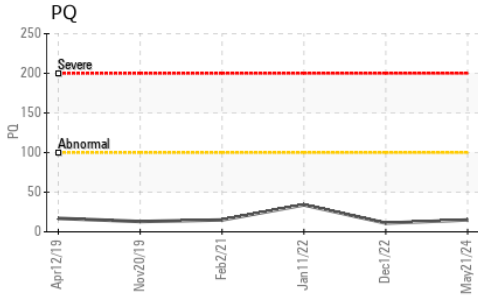
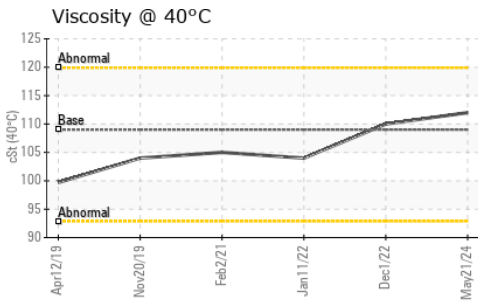
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>5</b>	5	4
Potassium	ppm	ASTM D5185m	>20	<b>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>1</b>	0	0
Boron	ppm	ASTM D5185m	400	<b>322</b>	305	318
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	12	<b>23</b>	1	<1
Calcium	ppm	ASTM D5185m	150	<b>3</b>	16	1
Phosphorus	ppm	ASTM D5185m	1650	<b>1433</b>	1285	1328
Zinc	ppm	ASTM D5185m	125	<b>7</b>	12	0
Sulfur	ppm	ASTM D5185m	22500	<b>28565</b>	27261	18608
Visc @ 40°C	cSt	ASTM D445	109	<b>112</b>	110	104



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA061917 **Received** : 03 Jul 2024  
**Lab Number** : 06227862 **Tested** : 05 Jul 2024  
**Unique Number** : 11111355 **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)