



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**STAN DEAL [SR00100761]**

Machine Id  
**VOLVO PENTA A253657**

Component  
**Port Diesel Engine**

Fluid  
**VOLVO VDS-4.5 Premium Motor Oil 15W40 (5 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA058917	VPA046791	VPA017506
Sample Date		Client Info		27 Jun 2024	29 Aug 2023	11 Feb 2019
Machine Age	hrs	Client Info		0	911	332
Oil Age	hrs	Client Info		0	0	63
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	9	7	12
Chromium	ppm	ASTM D5185m	>6	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	2
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	3	2
Lead	ppm	ASTM D5185m	>95	<1	0	2
Copper	ppm	ASTM D5185m	>85	4	4	5
Tin	ppm	ASTM D5185m	>9	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

**CONTAMINATION**

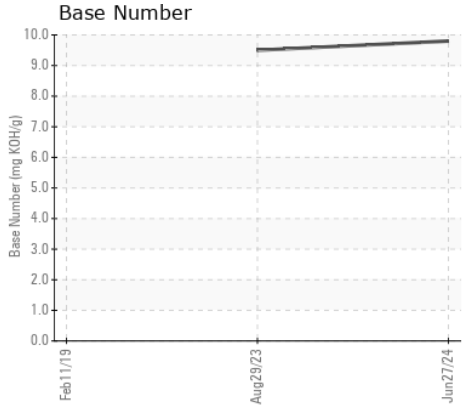
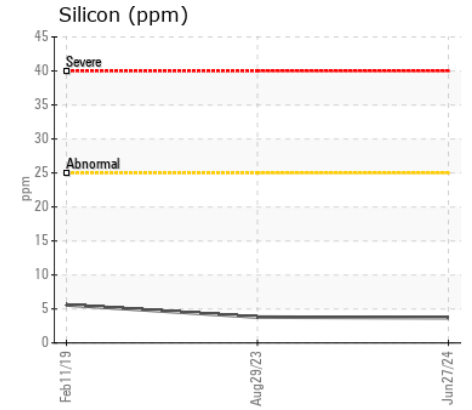
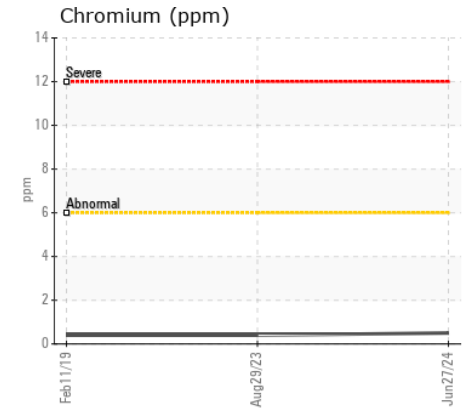
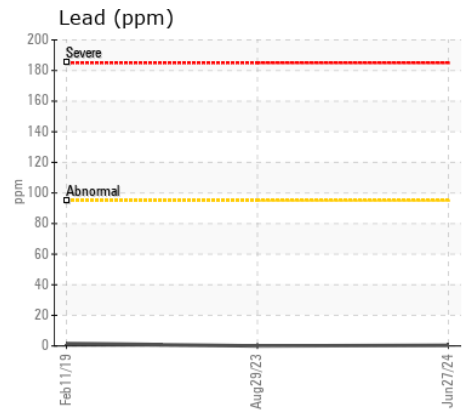
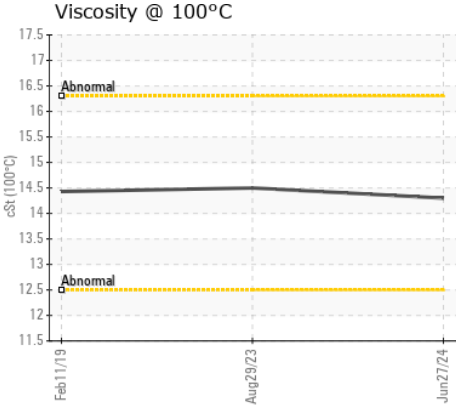
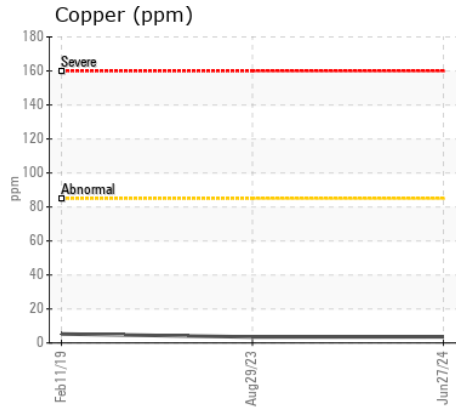
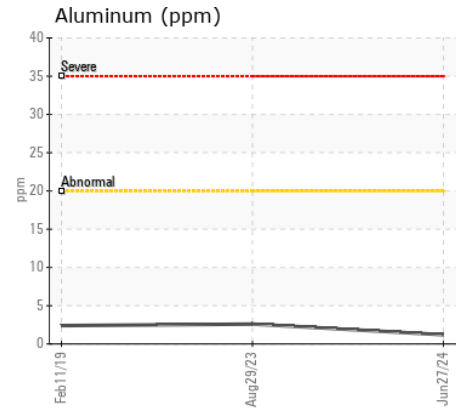
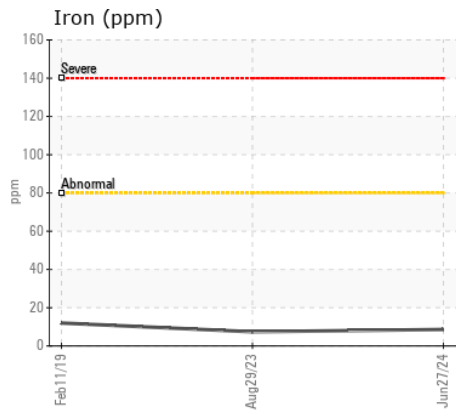
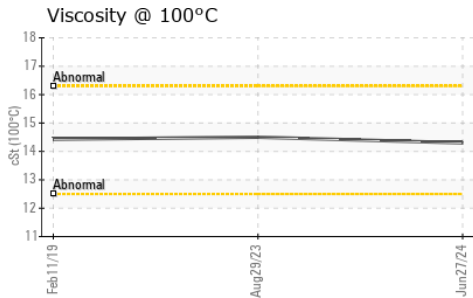
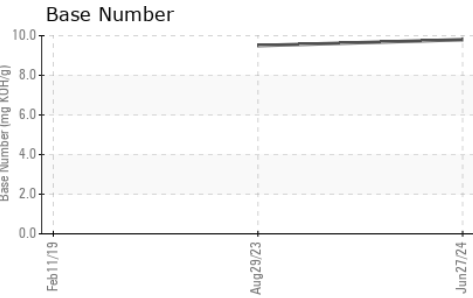
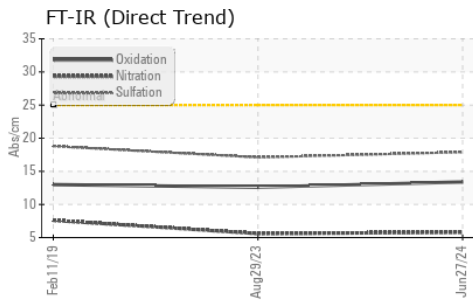
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	4	4	6
Potassium	ppm	ASTM D5185m	>20	0	<1	2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0.1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	5.8	5.6	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	17.1	18.8
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<1	2	2
Boron	ppm	ASTM D5185m		15	21	114
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		48	49	11
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1005	977	588
Calcium	ppm	ASTM D5185m		1210	1122	1248
Phosphorus	ppm	ASTM D5185m		1066	1016	659
Zinc	ppm	ASTM D5185m		1296	1212	716
Sulfur	ppm	ASTM D5185m		4052	3861	3218
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	12.6	13
Base Number (BN)	mg KOH/g	ASTM D2896		9.8	9.5	---
Visc @ 100°C	cSt	ASTM D445		14.3	14.5	14.43



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA058917 **Received** : 01 Jul 2024  
**Lab Number** : 06224260 **Tested** : 02 Jul 2024  
**Unique Number** : 11102457 **Diagnosed** : 02 Jul 2024 - Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: TBN )

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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)