



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**THOMAS RENENDETI [AJD/502644]**

Machine Id  
**VOLVO PENTA 2004032555**

Component  
**Port Diesel Engine**

Fluid  
**VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (3 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VPA060075</b>	VPA043139	VPA037066
Sample Date		Client Info		<b>19 Feb 2024</b>	24 Apr 2023	06 Dec 2021
Machine Age	hrs	Client Info		<b>1493</b>	1371	1257
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>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	<b>7</b>	5	9
Chromium	ppm	ASTM D5185m	>6	<b>1</b>	<1	1
Nickel	ppm	ASTM D5185m	>2	<b>3</b>	2	2
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	3	10
Lead	ppm	ASTM D5185m	>95	<b>4</b>	1	6
Copper	ppm	ASTM D5185m	>85	<b>8</b>	8	10
Tin	ppm	ASTM D5185m	>9	<b>1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

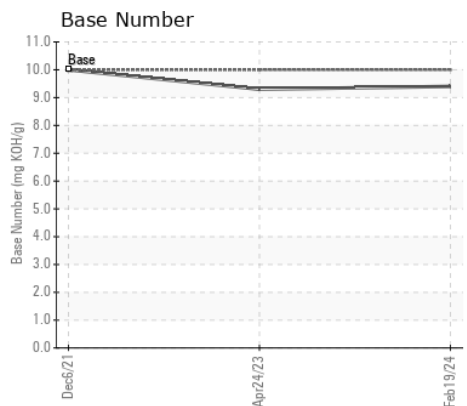
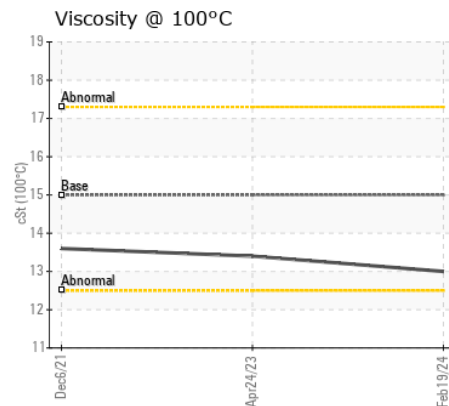
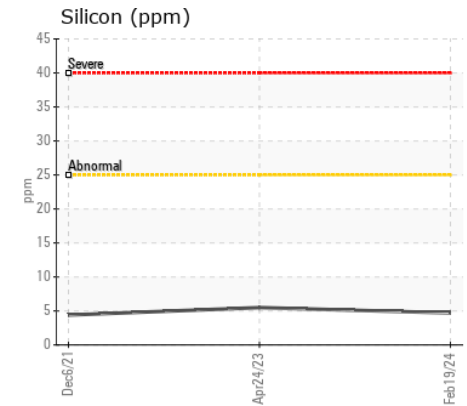
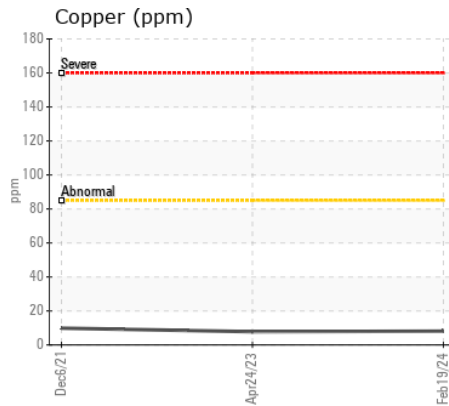
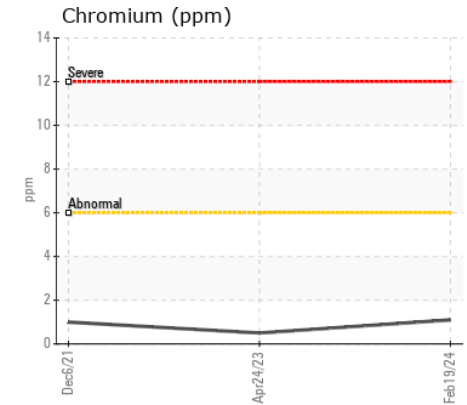
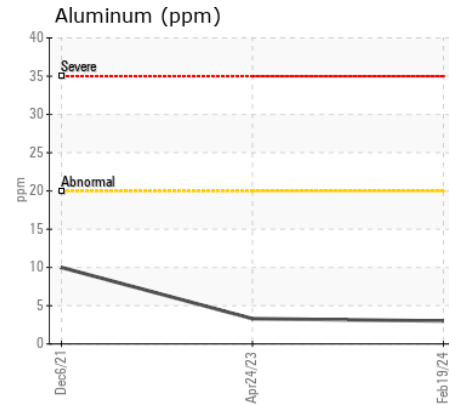
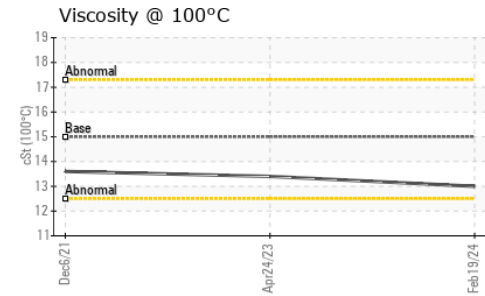
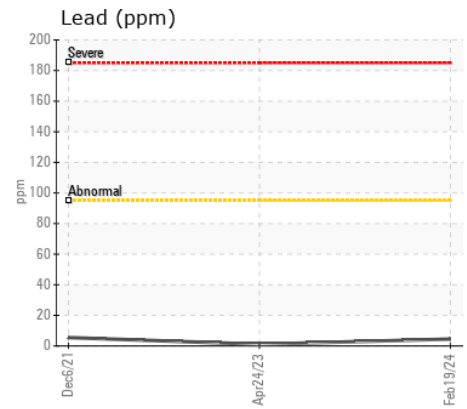
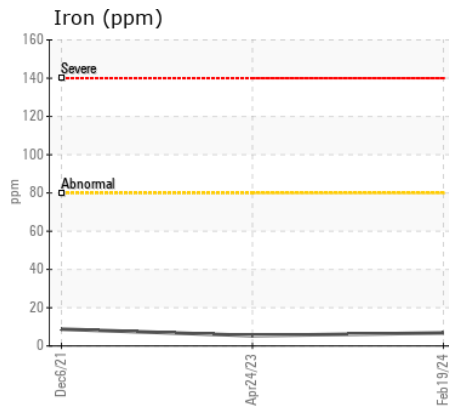
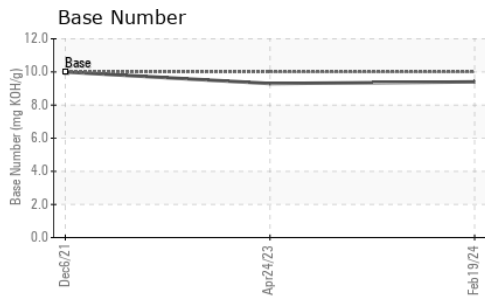
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	6	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	2
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.2</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.8</b>	8.5	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.6</b>	20.8	21.6
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	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>3</b>	2	4
Boron	ppm	ASTM D5185m	2.5	<b>53</b>	49	18
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.7	<b>57</b>	52	55
Manganese	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	256	<b>856</b>	880	995
Calcium	ppm	ASTM D5185m	2057	<b>1442</b>	1318	1199
Phosphorus	ppm	ASTM D5185m	935	<b>1055</b>	1009	1117
Zinc	ppm	ASTM D5185m	1223	<b>1326</b>	1265	1240
Sulfur	ppm	ASTM D5185m	4079	<b>3711</b>	3584	2998
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.3</b>	17.0	17.8
Base Number (BN)	mg KOH/g	ASTM D2896	10	<b>9.4</b>	9.3	10
Visc @ 100°C	cSt	ASTM D445	15.0	<b>13.0</b>	13.4	13.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA060075 **Received** : 29 Feb 2024  
**Lab Number** : 06104005 **Tested** : 29 Feb 2024  
**Unique Number** : 10902235 **Diagnosed** : 02 Mar 2024 - Don Baldrige  
**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)