



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**FREE TRADE 255**  
Machine Id  
**VOLVO PENTA 2013913643**  
Component  
**Port Diesel Engine**  
Fluid  
**VOLVO PENTA SAE 15W40 (15 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VPA062994</b>	VPA041422	---
Sample Date		Client Info		<b>28 May 2024</b>	15 Jun 2023	---
Machine Age	hrs	Client Info		<b>0</b>	526	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	Not Changed	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

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

**CONTAMINATION**

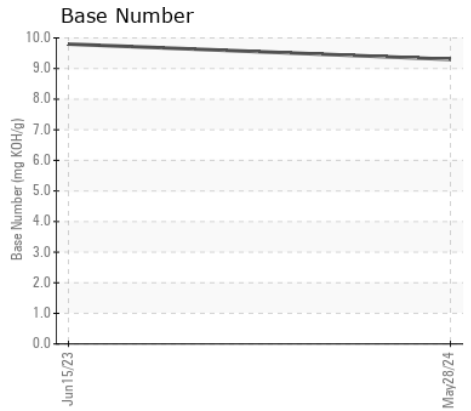
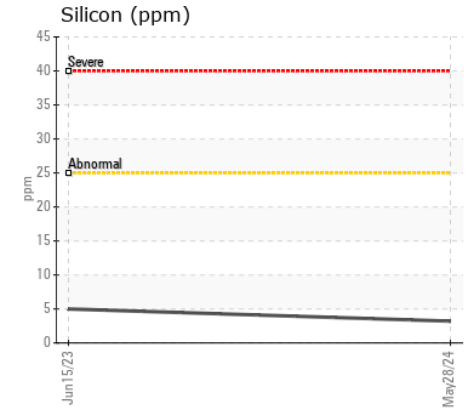
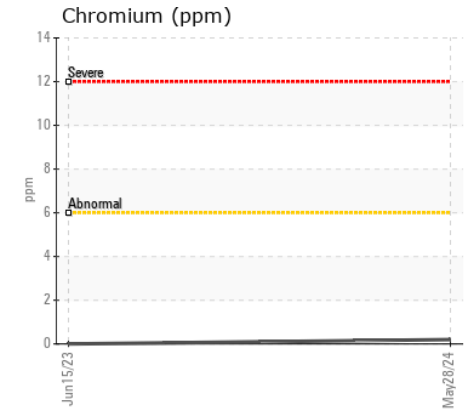
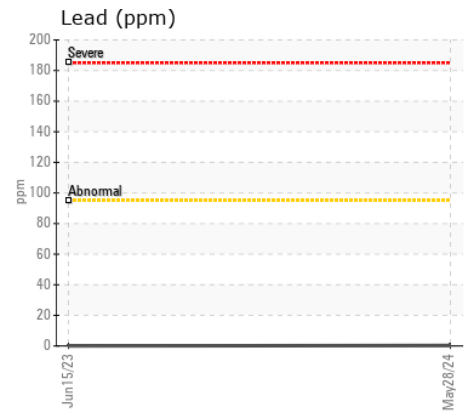
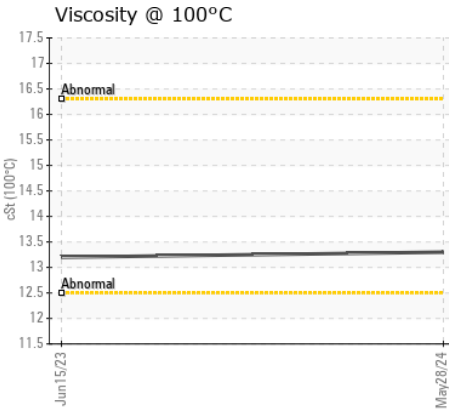
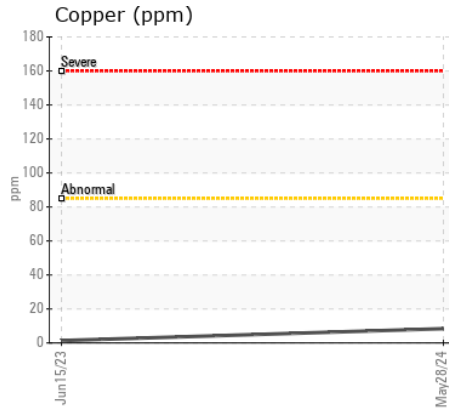
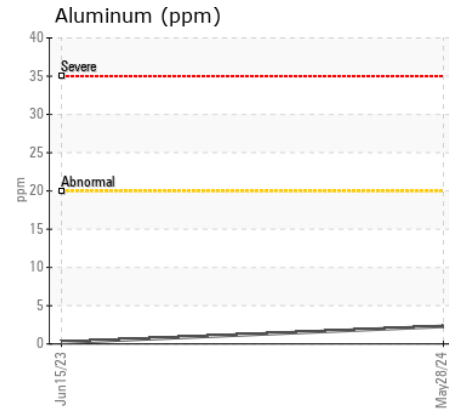
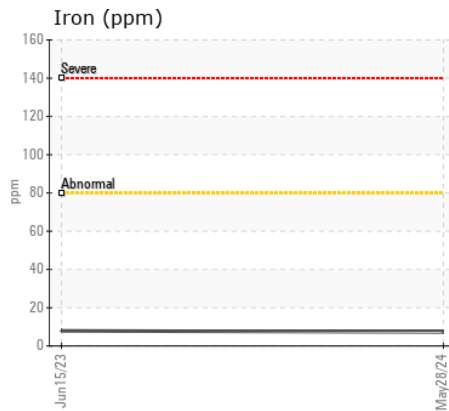
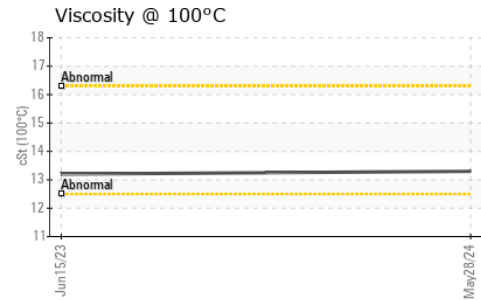
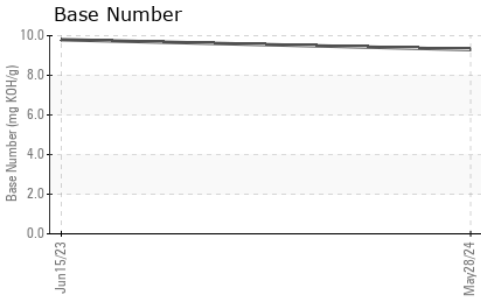
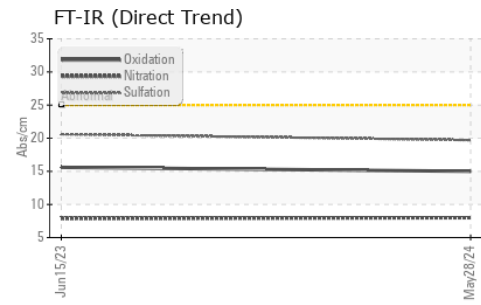
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	---
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844		<b>0.4</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.0</b>	7.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.7</b>	20.6	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	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		<b>&lt;1</b>	2	---
Boron	ppm	ASTM D5185m		<b>6</b>	0	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>67</b>	65	---
Manganese	ppm	ASTM D5185m		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m		<b>1002</b>	1070	---
Calcium	ppm	ASTM D5185m		<b>1095</b>	1213	---
Phosphorus	ppm	ASTM D5185m		<b>967</b>	1134	---
Zinc	ppm	ASTM D5185m		<b>1313</b>	1407	---
Sulfur	ppm	ASTM D5185m		<b>3030</b>	4063	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.0</b>	15.6	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.3</b>	9.8	---
Visc @ 100°C	cSt	ASTM D445		<b>13.3</b>	13.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA062994 **Received** : 26 Jun 2024  
**Lab Number** : 06220976 **Tested** : 27 Jun 2024  
**Unique Number** : 11099173 **Diagnosed** : 27 Jun 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**Marine International Diesels Inc.**  
 3600 HACIENDA BLVD UNIT G  
 DAVIE, FL  
 US 33314  
 Contact: JEF BURKE

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)

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