



Area

**THOMAS DEYEL [502853/7400]**

Machine Id

**VOLVO PENTA 3582395 - INBOARD**

Component

**Center Gearbox**

Fluid

**VOLVO PENTA SAE 15W40 (2 LTR)**

### RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### WEAR

Bearing and/or bushing wear is indicated. Gear wear is indicated.

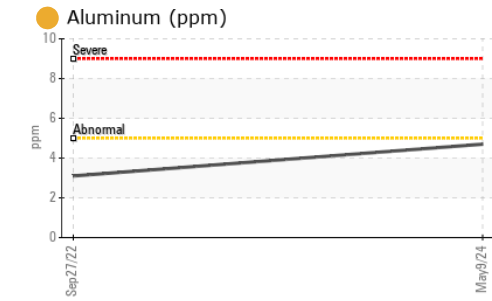
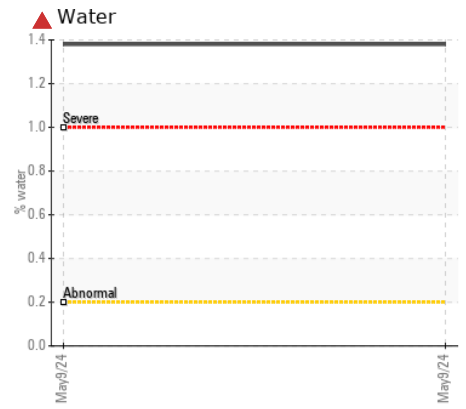
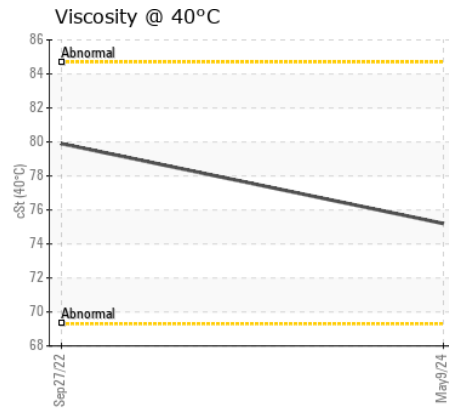
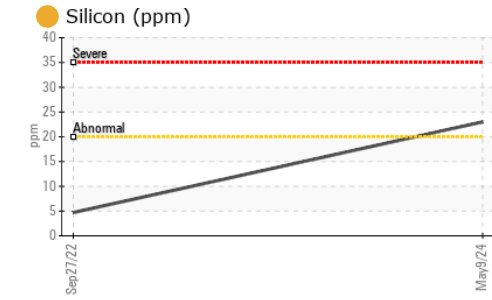
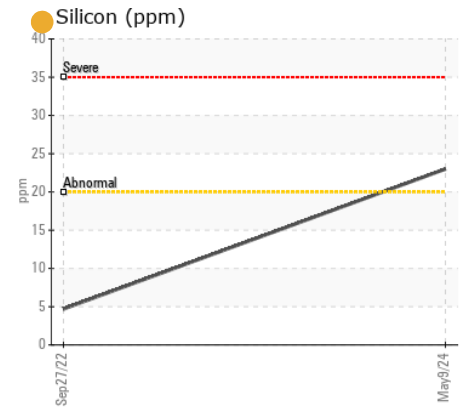
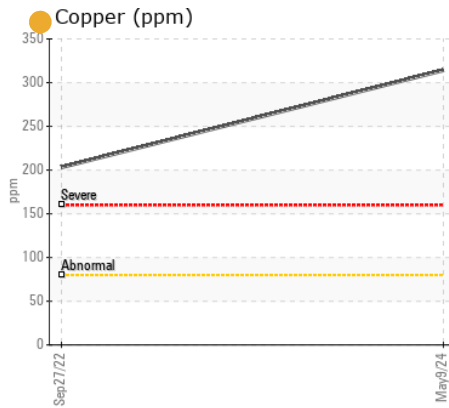
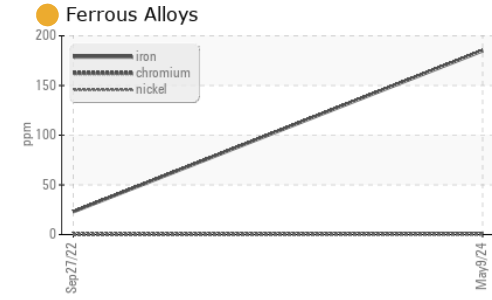
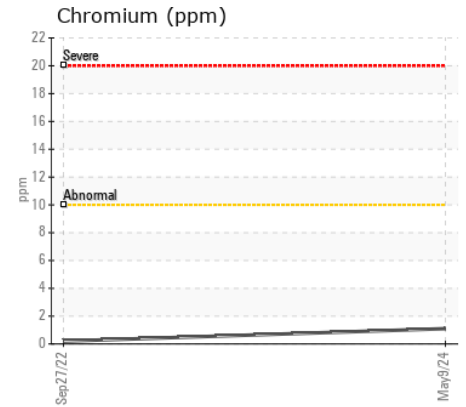
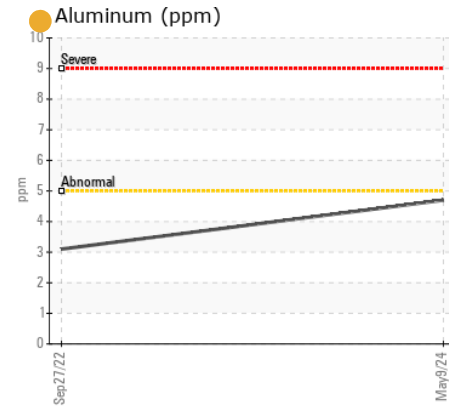
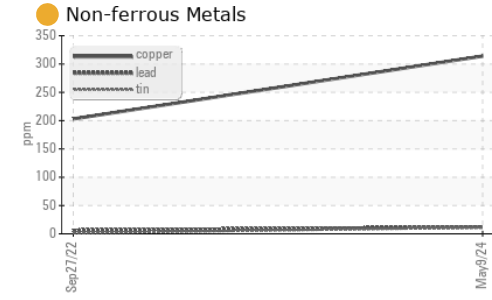
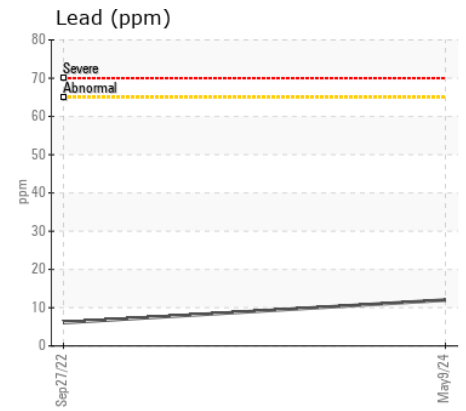
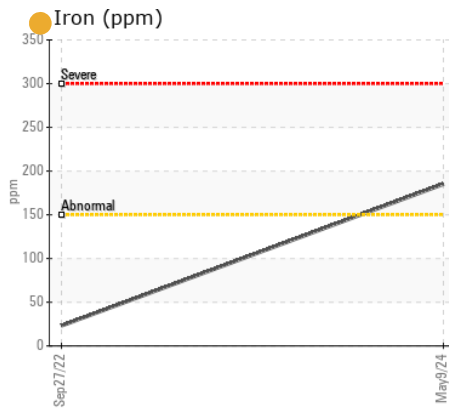
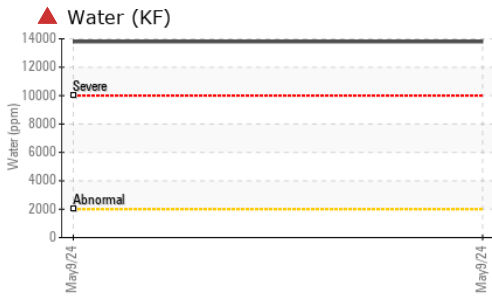
### CONTAMINATION

Elemental level of silicon (Si) above normal. There is a high concentration of water present in the oil.

### FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA060425	VPA043239	---
Sample Date		Client Info		09 May 2024	27 Sep 2022	---
Machine Age	hrs	Client Info		2187	600	---
Oil Age	hrs	Client Info		1000	55	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	ATTENTION	---
PQ		ASTM D8184		94	14	---
Iron	ppm	ASTM D5185m	>150	185	23	---
Chromium	ppm	ASTM D5185m	>10	1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>5	5	3	---
Lead	ppm	ASTM D5185m	>65	12	6	---
Copper	ppm	ASTM D5185m	>80	314	203	---
Tin	ppm	ASTM D5185m	>8	11	1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	23	5	---
Potassium	ppm	ASTM D5185m	>20	4	3	---
Water	%	ASTM D6304	>0.2	1.38	---	---
ppm Water	ppm	ASTM D6304	>2000	13800	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	HAZY	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	---
Sodium	ppm	ASTM D5185m		123	6	---
Boron	ppm	ASTM D5185m		51	527	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		60	91	---
Manganese	ppm	ASTM D5185m		3	<1	---
Magnesium	ppm	ASTM D5185m		856	303	---
Calcium	ppm	ASTM D5185m		855	1578	---
Phosphorus	ppm	ASTM D5185m		1162	1155	---
Zinc	ppm	ASTM D5185m		1069	1206	---
Sulfur	ppm	ASTM D5185m		8086	5730	---
Visc @ 40°C	cSt	ASTM D445		75.2	79.9	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA060425 **Received** : 13 May 2024  
**Lab Number** : 06177492 **Tested** : 15 May 2024  
**Unique Number** : 11023545 **Diagnosed** : 15 May 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: KF, PQ )

**Endor Marine LLC - Coastal Marine - 152124**  
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 F: (206)784-8823

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)