



# VOLVO PENTA

## OIL ANALYSIS REPORT

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

Area  
**TREVOR SKELLY [7718151]**  
Machine Id  
**ZF 96-15187 - INBOARD**  
Component  
**Port Gearbox**  
Fluid  
**CHEVRON DELO 400 SAE 30 (2 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VPA060860</b>	VPA033469	---
Sample Date		Client Info		<b>09 Jan 2024</b>	28 Feb 2022	---
Machine Age	hrs	Client Info		<b>1722</b>	1400	---
Oil Age	hrs	Client Info		<b>322</b>	200	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ATTENTION	---

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>14</b>	21	---
Iron	ppm	ASTM D5185m	>200	<b>10</b>	38	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	▲ 10	---
Lead	ppm	ASTM D5185m	>50	<b>47</b>	▲ 134	---
Copper	ppm	ASTM D5185m	>200	<b>28</b>	▲ 114	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	▲ 8	---
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

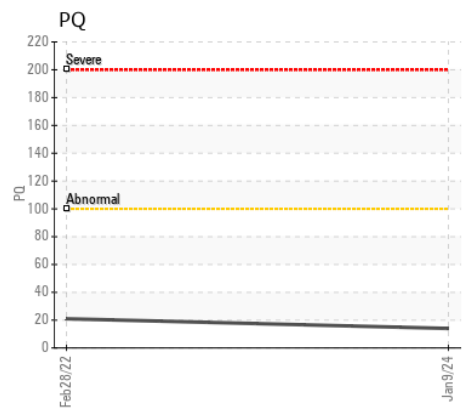
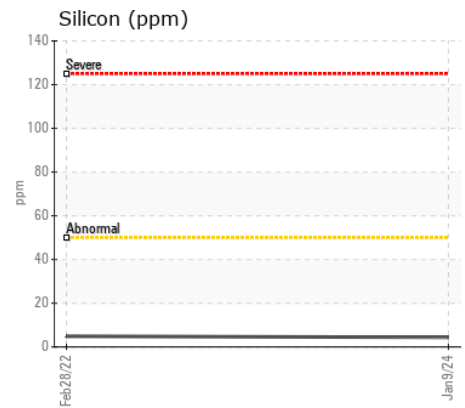
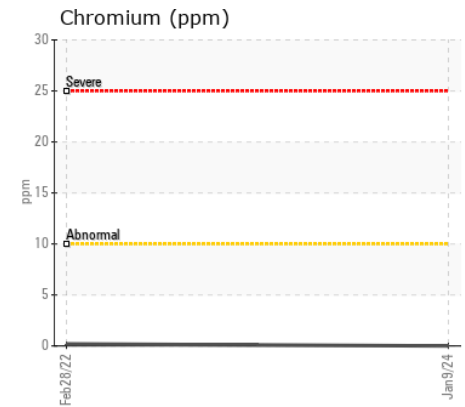
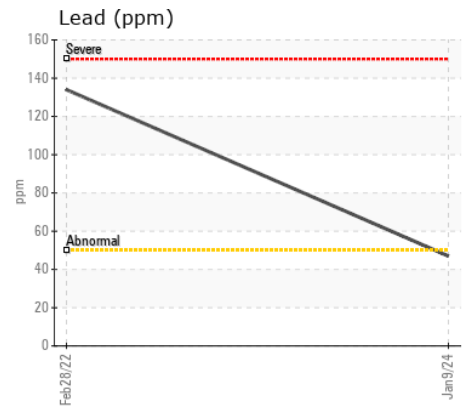
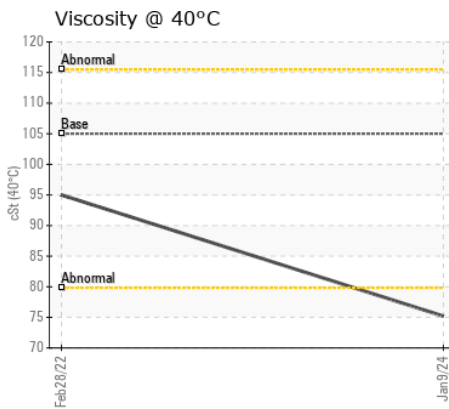
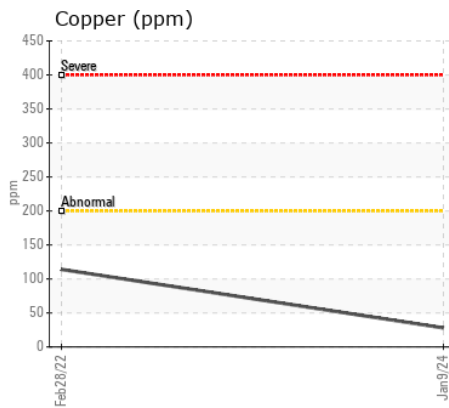
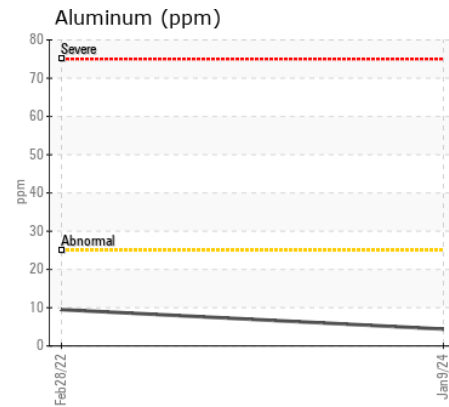
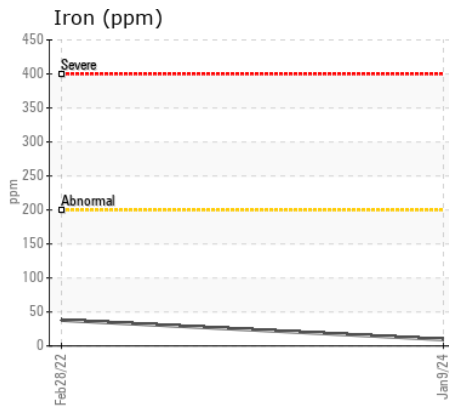
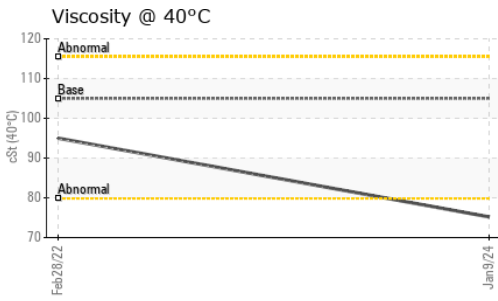
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>4</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
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	>0.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>3</b>	2	---
Boron	ppm	ASTM D5185m		<b>55</b>	221	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>68</b>	84	---
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>948</b>	788	---
Calcium	ppm	ASTM D5185m		<b>1144</b>	1388	---
Phosphorus	ppm	ASTM D5185m	1160	<b>1098</b>	1015	---
Zinc	ppm	ASTM D5185m	1270	<b>1174</b>	1097	---
Sulfur	ppm	ASTM D5185m		<b>3489</b>	3288	---
Visc @ 40°C	cSt	ASTM D445	105	<b>75.2</b>	95.0	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA060860 **Received** : 17 Jan 2024  
**Lab Number** : 06063108 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10834490 **Diagnostician** : Sean Felton  
**Test Package** : MOB 1 ( Additional Tests: PQ )

**Pacific Power Group - VP981534**  
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 Kent, WA  
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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)