



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
PORSCHE 2014 PORSCHE CAYENNE
Component
Gasoline Engine
Fluid
SAE 5W40 (--- LTR)

RECOMMENDATION

We advise that you check for faulty combustion and a possible overheat condition. 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0838807	---	---
Sample Date		Client Info		06 Jan 2024	---	---
Machine Age	kms	Client Info		138123	---	---
Oil Age	kms	Client Info		6000	---	---
Filter Age	kms	Client Info		6000	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	8	---	---
Chromium	ppm	ASTM D5185(m)	>20	0	---	---
Nickel	ppm	ASTM D5185(m)	>5	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>40	10	---	---
Lead	ppm	ASTM D5185(m)	>50	0	---	---
Copper	ppm	ASTM D5185(m)	>155	2	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

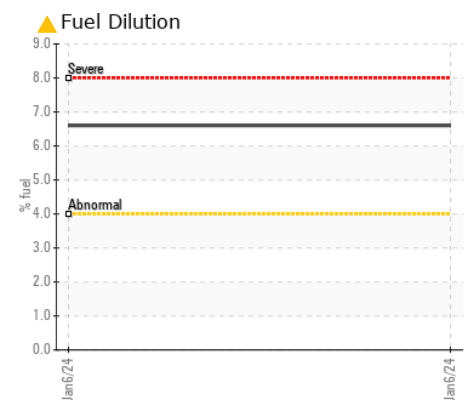
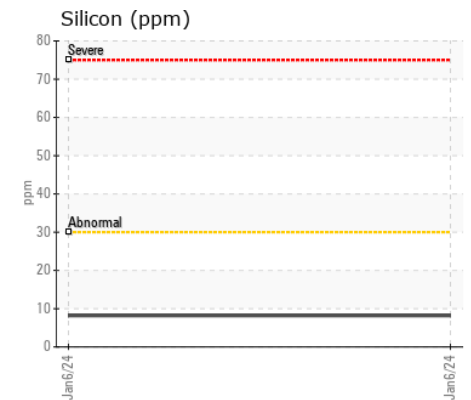
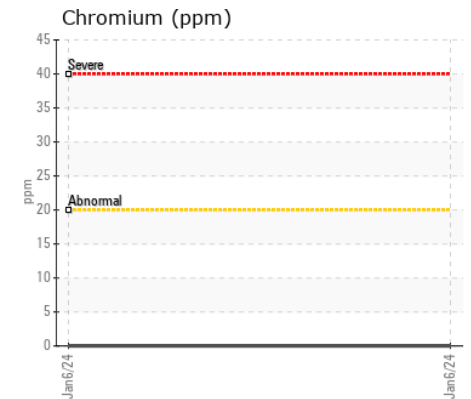
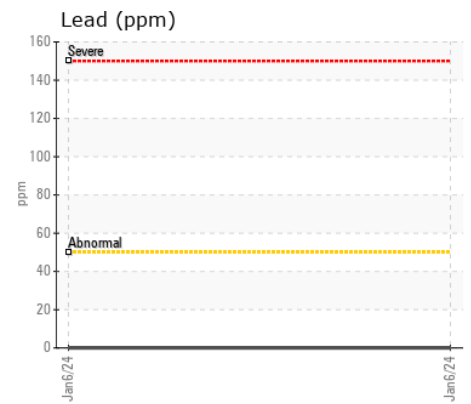
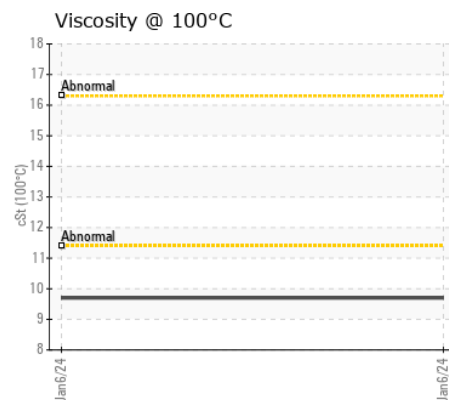
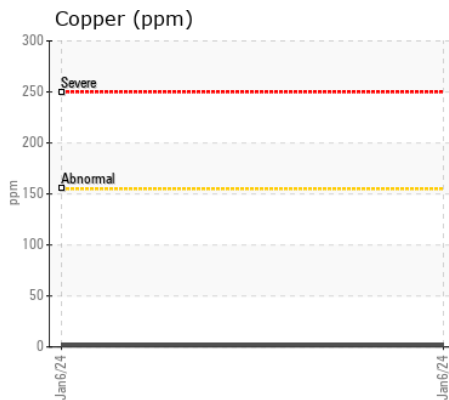
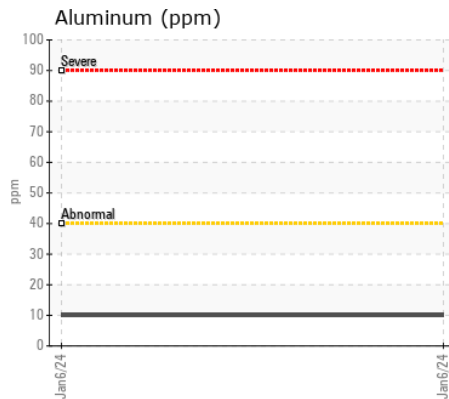
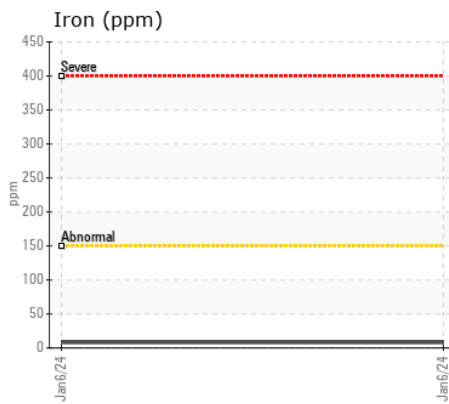
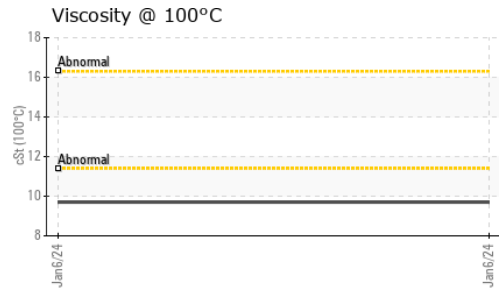
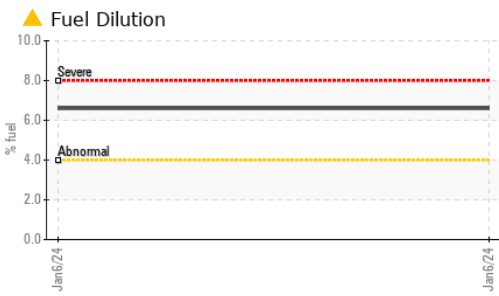
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>30	8	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel	%	ASTM D7593*	>4.0	▲ 6.6	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	11.8	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	30.9	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

A small degree of oil oxidation was indicated. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable.

Sodium	ppm	ASTM D5185(m)		14	---	---
Boron	ppm	ASTM D5185(m)		196	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		56	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		7	---	---
Calcium	ppm	ASTM D5185(m)		1445	---	---
Phosphorus	ppm	ASTM D5185(m)		613	---	---
Zinc	ppm	ASTM D5185(m)		685	---	---
Sulfur	ppm	ASTM D5185(m)		1538	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	▲ 33.1	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		9.7	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0838807 **Received** : 09 Jan 2024
Lab Number : 02607483 **Diagnosed** : 10 Jan 2024
Unique Number : 5708569 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

Thomas Solutions
 70 Beach Road
 Hamilton, ON
 CA L7L 8K3
 Contact: ELVIN B.

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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