



VOLVO PENTA

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
RUSSELL [RUSSELL]
Machine Id
VOLVO PENTA 3950003081
Component
Port IPS
Fluid
VOLVO PENTA GL-5 SAE 75W90 (8 GAL)

RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

Gear wear is indicated.

CONTAMINATION

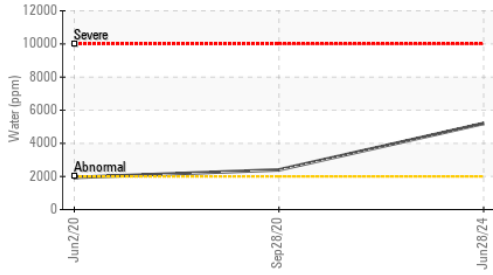
There is a moderate concentration of water present in the oil.

FLUID CONDITION

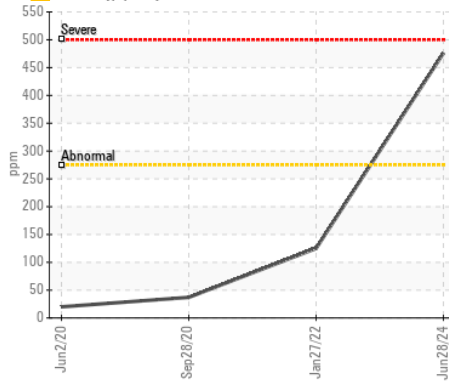
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA058246	VPA037953	VPA025475
Sample Date		Client Info		28 Jun 2024	27 Jan 2022	28 Sep 2020
Machine Age	hrs	Client Info		928	473	347
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
PQ		ASTM D8184		25	26	27
Iron	ppm	ASTM D5185m	>275	▲ 476	125	37
Chromium	ppm	ASTM D5185m	>4	5	1	<1
Nickel	ppm	ASTM D5185m	>4	7	1	<1
Titanium	ppm	ASTM D5185m	>3	1	0	0
Silver	ppm	ASTM D5185m		<1	<1	<1
Aluminum	ppm	ASTM D5185m	>10	▲ 27	5	1
Lead	ppm	ASTM D5185m	>4	<1	0	0
Copper	ppm	ASTM D5185m	>30	30	20	5
Tin	ppm	ASTM D5185m	>3	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>35	6	3	2
Potassium	ppm	ASTM D5185m	>20	6	1	14
Water	%	ASTM D6304	>0.2	▲ 0.520	---	▲ 0.240
ppm Water	ppm	ASTM D6304	>2000	▲ 5200	---	▲ 2400
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG	0.2%
Sodium	ppm	ASTM D5185m		67	20	6
Boron	ppm	ASTM D5185m		248	295	293
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	<1	<1
Manganese	ppm	ASTM D5185m		6	66	2
Magnesium	ppm	ASTM D5185m		15	66	20
Calcium	ppm	ASTM D5185m		6	17	11
Phosphorus	ppm	ASTM D5185m		1365	1346	1291
Zinc	ppm	ASTM D5185m		231	82	8
Sulfur	ppm	ASTM D5185m		23789	19302	20364
Visc @ 40°C	cSt	ASTM D445	90.0	103	106	101

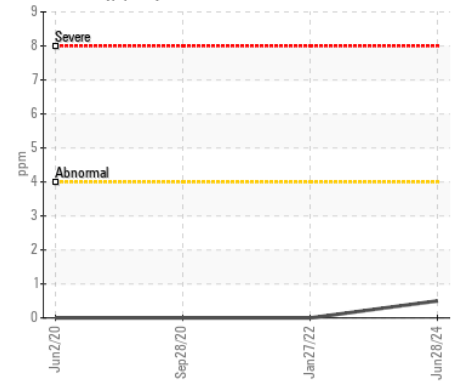
▲ Water (KF)



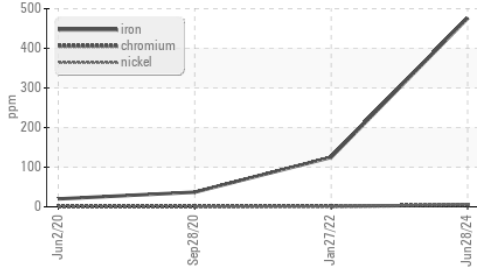
▲ Iron (ppm)



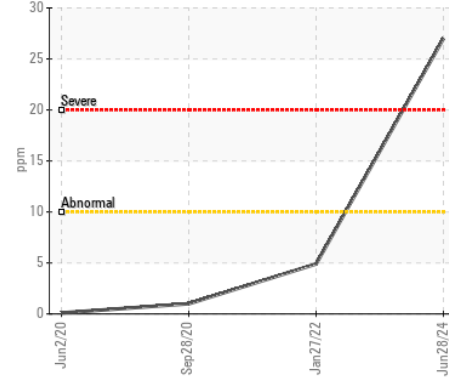
▲ Lead (ppm)



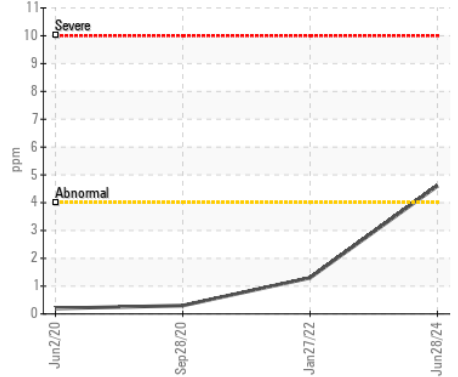
▲ Ferrous Alloys



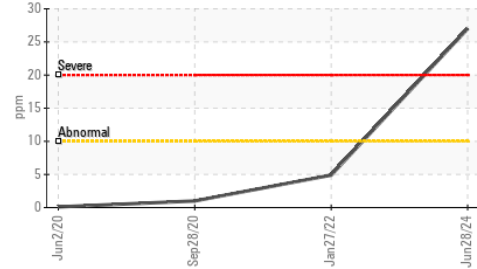
▲ Aluminum (ppm)



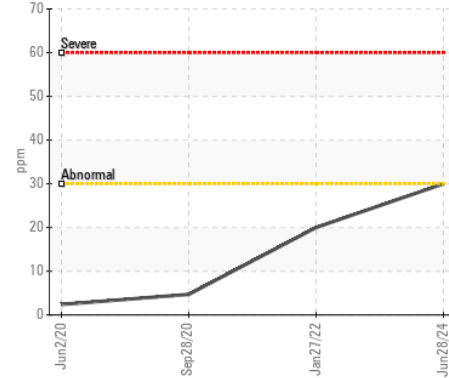
▲ Chromium (ppm)



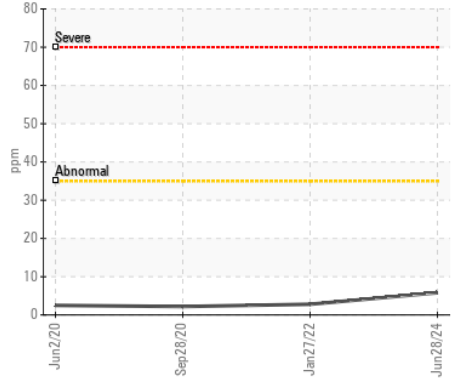
▲ Aluminum (ppm)



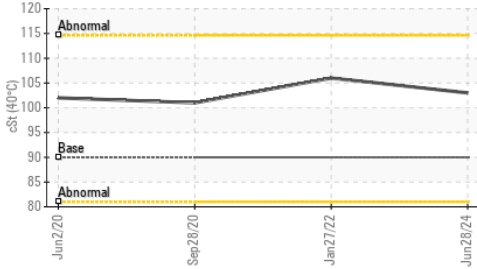
▲ Copper (ppm)



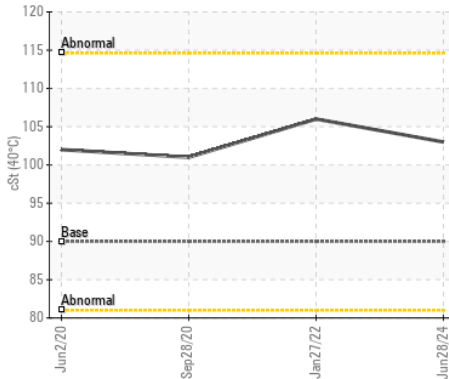
▲ Silicon (ppm)



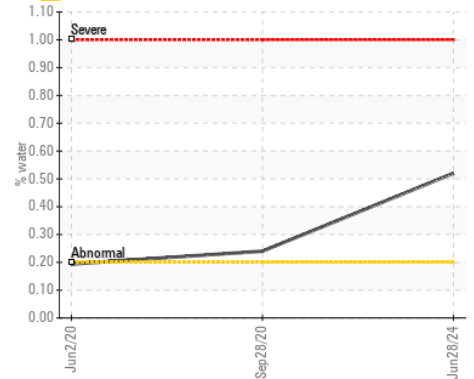
▲ Viscosity @ 40°C



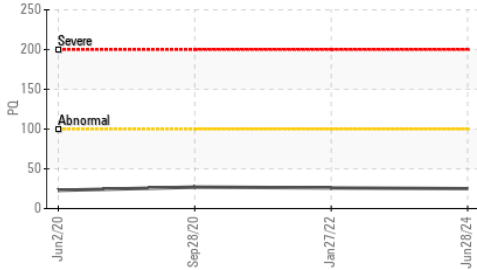
▲ Viscosity @ 40°C



▲ Water



▲ PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : VPA058246

Lab Number : 06229318

Unique Number : 11112811

Test Package : MOB 1 (Additional Tests: KF, PQ)

Received : 05 Jul 2024

Tested : 09 Jul 2024

Diagnosed : 09 Jul 2024 - Jonathan Hester

Suncoast Diesel Marine Inc.

610 Mount Vernan St

OLDSMAR, FL

US 34677

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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)