



VOLVO PENTA

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
NORMAL

Area

GREG PACKER [MATTHEW DOW]

Machine Id

VOLVO PENTA 3940021442

Component

Port IPS

Fluid

VOLVO PENTA GL-5 SAE 75W90 (14 QTS)

RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

CONTAMINATION

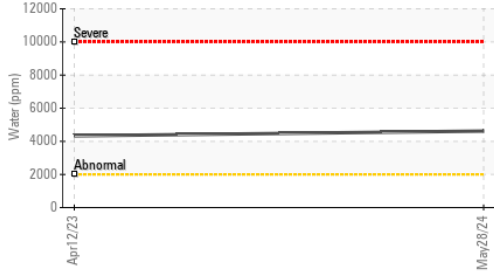
Appearance is milky. There is a moderate concentration of water present in the oil.

FLUID CONDITION

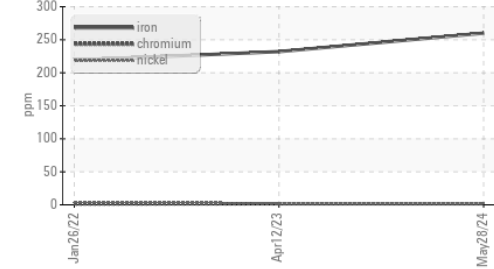
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA061919	VPA047882	VPA036109
Sample Date		Client Info		28 May 2024	12 Apr 2023	26 Jan 2022
Machine Age	hrs	Client Info		618	541	452
Oil Age	hrs	Client Info		77	89	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	ABNORMAL	ATTENTION
PQ		ASTM D8184		26	24	19
Iron	ppm	ASTM D5185m	>275	260	232	219
Chromium	ppm	ASTM D5185m	>4	2	2	1
Nickel	ppm	ASTM D5185m	>4	2	2	4
Titanium	ppm	ASTM D5185m	>3	0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	4	<1	3
Lead	ppm	ASTM D5185m	>4	0	0	<1
Copper	ppm	ASTM D5185m	>30	12	17	31
Tin	ppm	ASTM D5185m	>3	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>35	11	15	14
Potassium	ppm	ASTM D5185m	>20	1	1	2
Water	%	ASTM D6304	>0.2	0.462	0.433	---
ppm Water	ppm	ASTM D6304	>2000	4620	4330	---
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	MILKY	HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	NEG
Sodium	ppm	ASTM D5185m		2	1	6
Boron	ppm	ASTM D5185m		304	350	205
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		3	4	5
Magnesium	ppm	ASTM D5185m		18	24	44
Calcium	ppm	ASTM D5185m		8	11	8
Phosphorus	ppm	ASTM D5185m		1517	1313	1357
Zinc	ppm	ASTM D5185m		41	21	2
Sulfur	ppm	ASTM D5185m		29491	25206	20391
Visc @ 40°C	cSt	ASTM D445	90.0	102	108	102

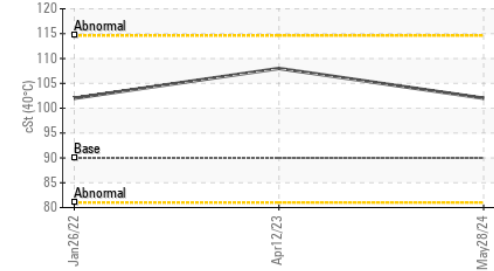
▲ Water (KF)



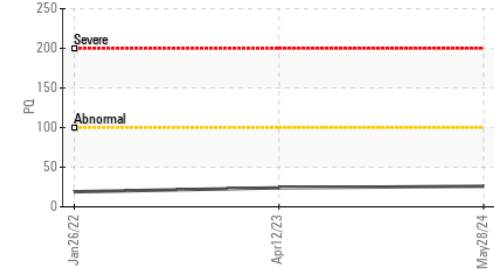
● Ferrous Alloys



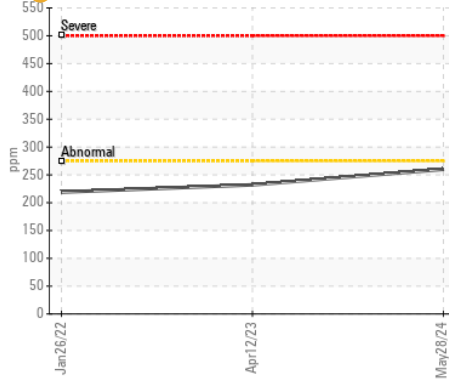
Viscosity @ 40°C



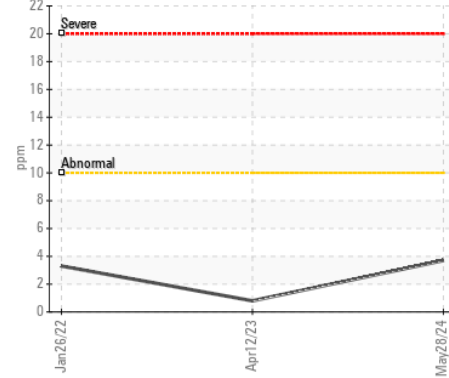
PQ



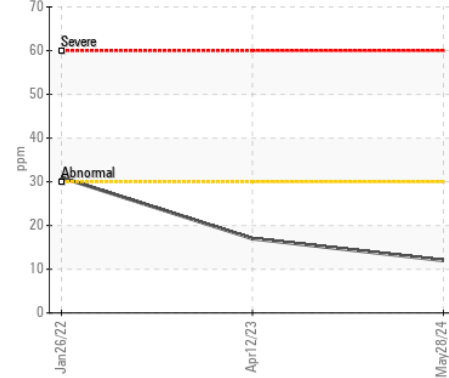
● Iron (ppm)



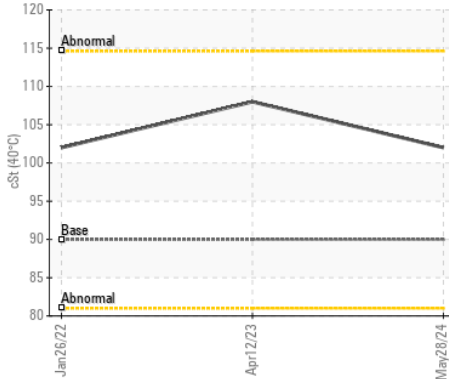
Aluminum (ppm)



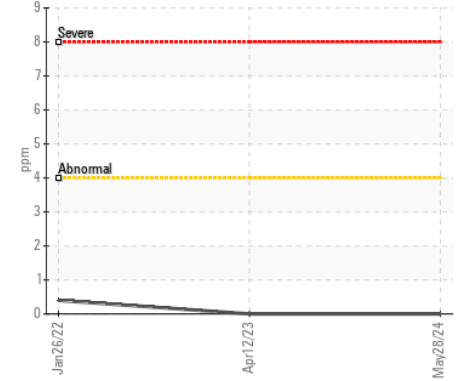
Copper (ppm)



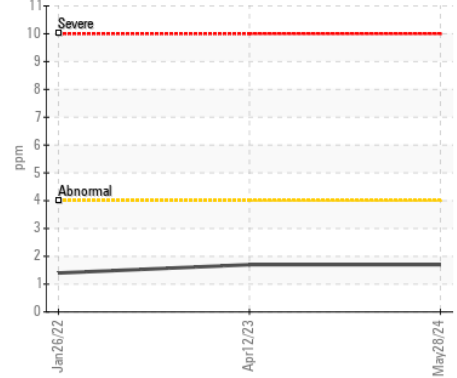
Viscosity @ 40°C



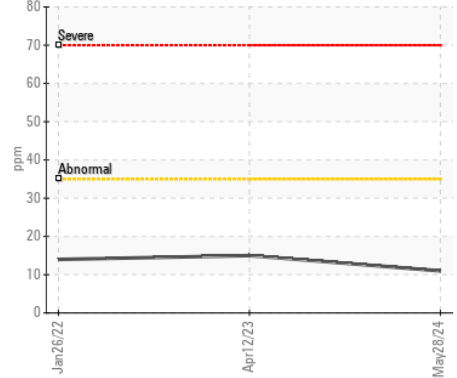
Lead (ppm)



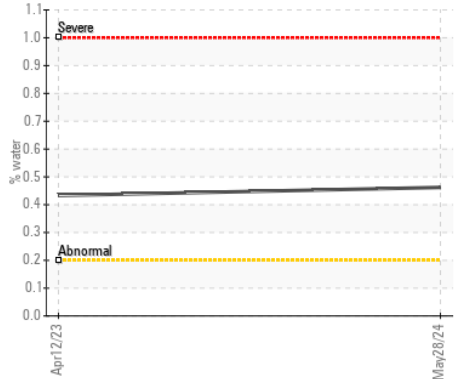
Chromium (ppm)



Silicon (ppm)



▲ Water



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA061919 **Received** : 03 Jul 2024
Lab Number : 06227863 **Tested** : 07 Jul 2024
Unique Number : 11111356 **Diagnosed** : 07 Jul 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: KF, PQ)

Mobile Marine Services Inc
 01032 Advance Rd South
 EAST JORDAN, MI
 US 49727
 Contact: Duane Kujat
 mobilemarine@twin-valley.net
 T: Phone
 F:

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)