



VOLVO PENTA

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
RIO [540259]
Machine Id
VOLVO PENTA 3950002766
Component
Starboard IPS
Fluid
GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA051036	VPA040127	VPA035422
Sample Date		Client Info		05 May 2024	19 Oct 2021	13 Oct 2021
Machine Age	hrs	Client Info		1210	1100	1092
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Filter Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

PQ		ASTM D8184		19	19	27
Iron	ppm	ASTM D5185m	>200	27	8	209
Chromium	ppm	ASTM D5185m	>10	<1	<1	2
Nickel	ppm	ASTM D5185m	>10	0	0	3
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m		2	<1	10
Lead	ppm	ASTM D5185m		0	0	3
Copper	ppm	ASTM D5185m		4	1	34
Tin	ppm	ASTM D5185m		<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

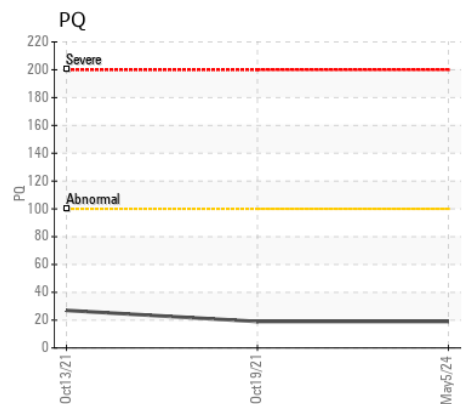
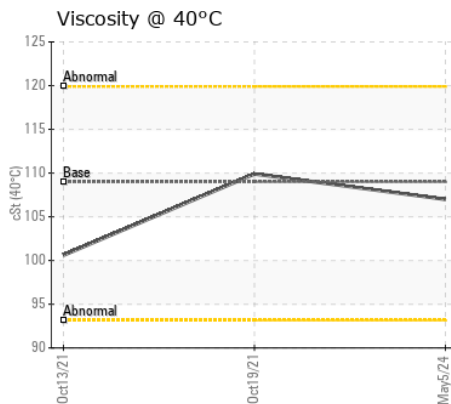
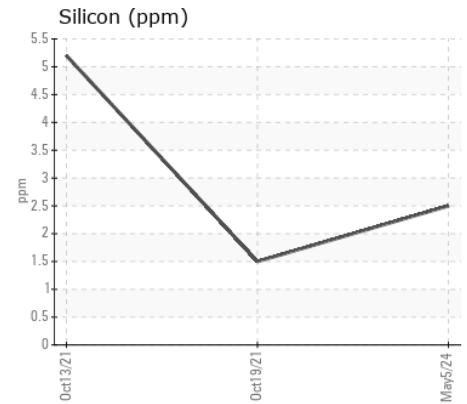
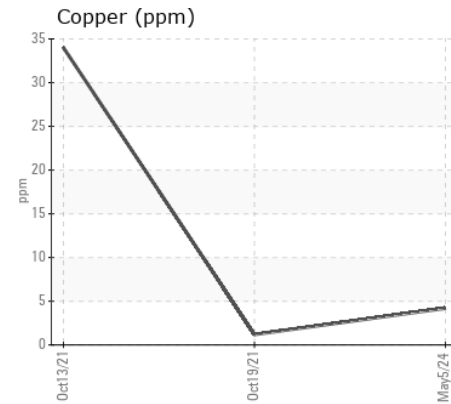
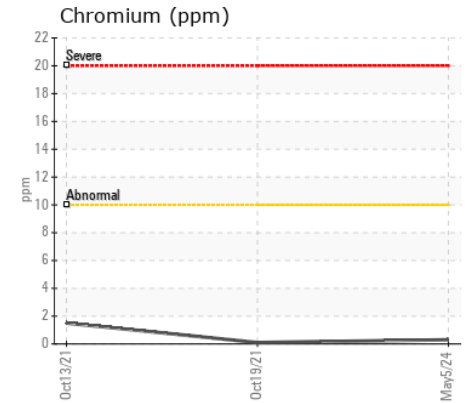
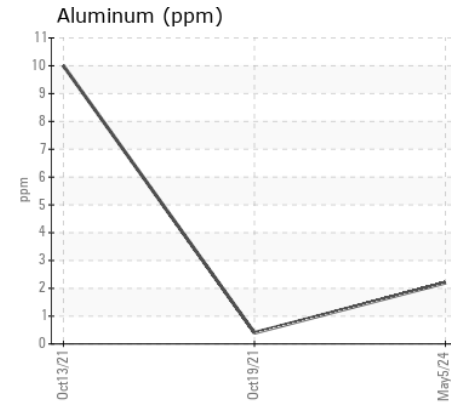
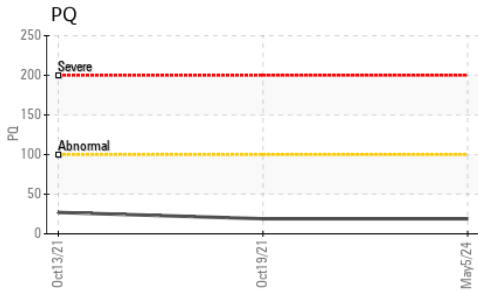
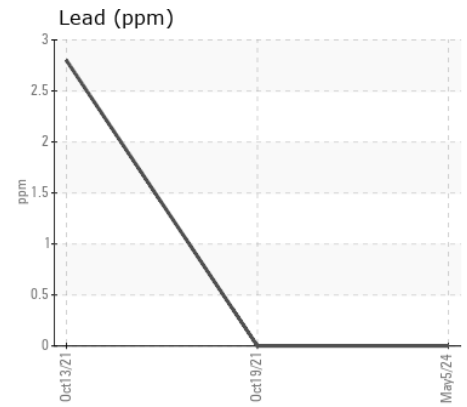
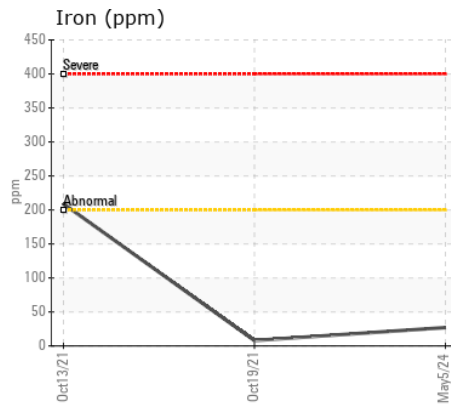
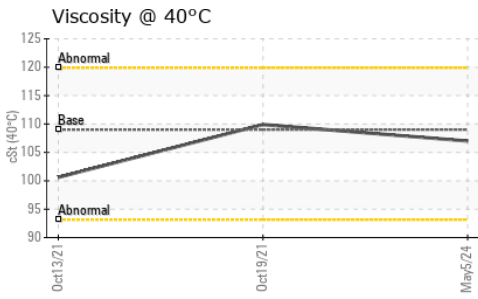
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		2	2	5
Potassium	ppm	ASTM D5185m	>20	1	5	0
Water		WC Method	>0.2	NEG	NEG	NEG
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	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		1	1	24
Boron	ppm	ASTM D5185m	400	385	288	210
Barium	ppm	ASTM D5185m	200	0	0	<1
Molybdenum	ppm	ASTM D5185m	12	0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	9
Magnesium	ppm	ASTM D5185m	12	2	<1	17
Calcium	ppm	ASTM D5185m	150	7	3	9
Phosphorus	ppm	ASTM D5185m	1650	1575	1284	1206
Zinc	ppm	ASTM D5185m	125	7	4	193
Sulfur	ppm	ASTM D5185m	22500	27003	38642	36584
Visc @ 40°C	cSt	ASTM D445	109	107	109.9	100.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA051036 **Received** : 10 May 2024
Lab Number : 06175847 **Tested** : 13 May 2024
Unique Number : 11021900 **Diagnosed** : 14 May 2024 - Sean Felton
Test Package : MOB 1 (Additional Tests: PQ)

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 3600 HACIENDA BLVD UNIT G
 DAVIE, FL
 US 33314
 Contact: ASHANTI BURKE
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 F: (954)761-1186

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)