



VOLVO PENTA

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
JOHN LUGGER [SAM]
Machine Id
VOLVO PENTA 3950002690
Component
Port IPS
Fluid
VOLVO API GL-5 SAE 75W90 (8 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA060419	VPA048934	VPA037051
Sample Date		Client Info		13 Mar 2024	11 Nov 2022	01 Feb 2022
Machine Age	hrs	Client Info		1462	0	0
Oil Age	hrs	Client Info		0	178	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

PQ		ASTM D8184		29	20	23
Iron	ppm	ASTM D5185m	>200	107	117	277
Chromium	ppm	ASTM D5185m	>10	1	1	3
Nickel	ppm	ASTM D5185m	>10	1	<1	2
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m		6	5	16
Lead	ppm	ASTM D5185m		<1	<1	1
Copper	ppm	ASTM D5185m		7	5	11
Tin	ppm	ASTM D5185m		<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

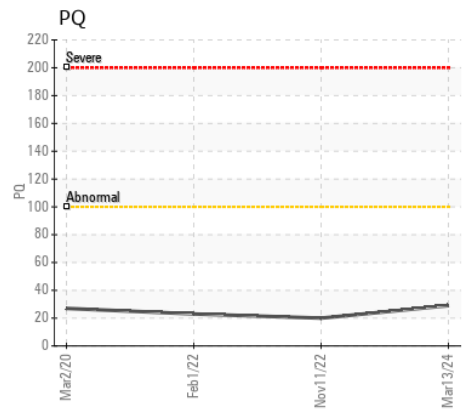
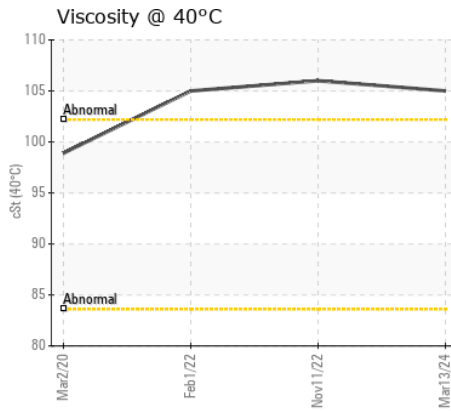
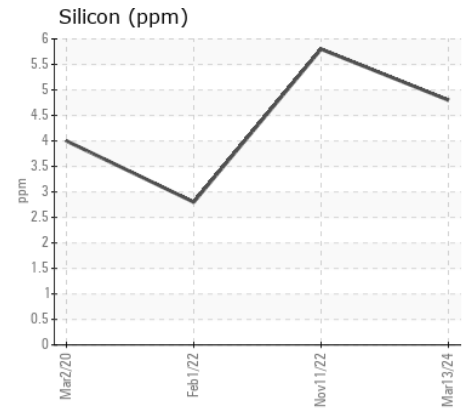
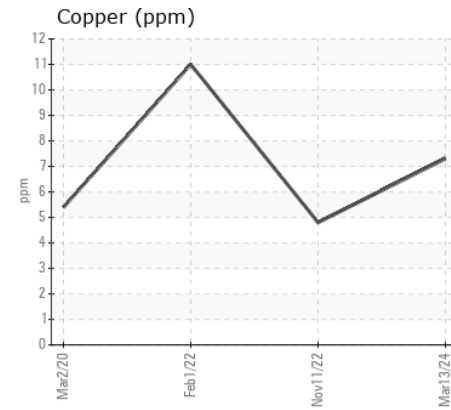
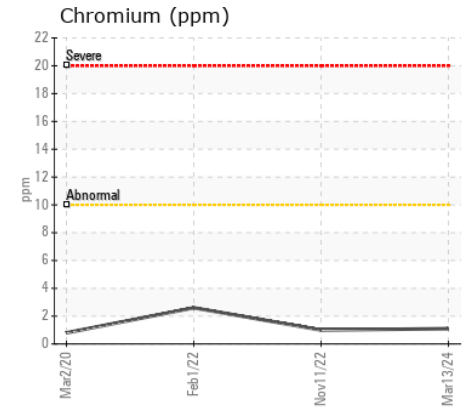
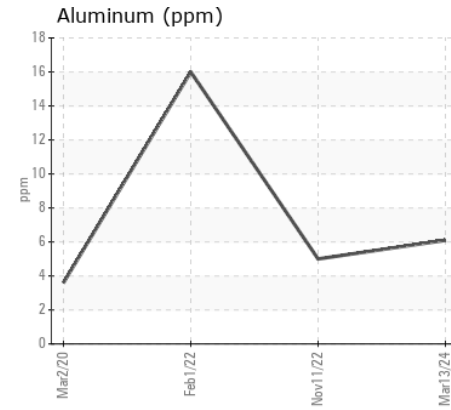
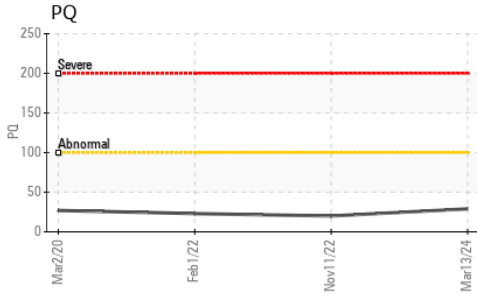
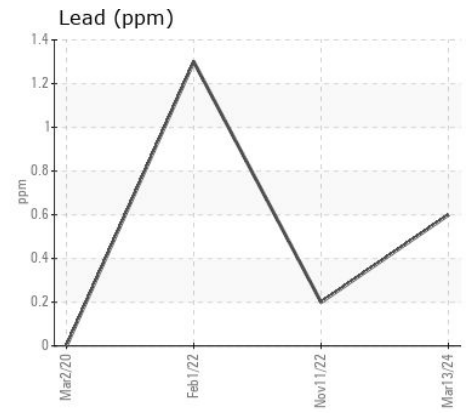
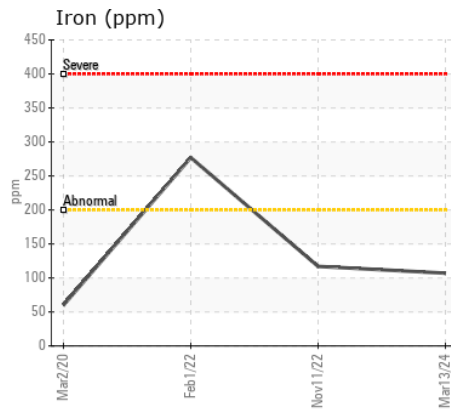
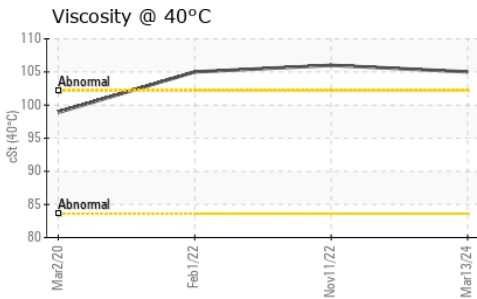
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		5	6	3
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
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		4	4	24
Boron	ppm	ASTM D5185m		276	287	270
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		2	2	4
Magnesium	ppm	ASTM D5185m		1	<1	13
Calcium	ppm	ASTM D5185m		7	5	7
Phosphorus	ppm	ASTM D5185m		1160	1369	1473
Zinc	ppm	ASTM D5185m		46	19	188
Sulfur	ppm	ASTM D5185m		23391	25056	22076
Visc @ 40°C	cSt	ASTM D445		105	106	105



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VPA060419 **Received** : 20 Mar 2024
Lab Number : 06123985 **Tested** : 21 Mar 2024
Unique Number : 10938136 **Diagnosed** : 22 Mar 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: PQ)

Endor Marine LLC - Coastal Marine - 152124
 4300 11th Ave. NW
 SEATTLE, WA
 US 98107
 Contact: WILLOW YANARELLA
 service@coastalmarineengine.com
 T: (206)784-3703
 F: (206)784-8823

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)