



VOLVO

OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL

NORMAL

ATTENTION



Area
[PRINCE]
Machine Id
VOLVO L90H 626620
Component
Transmission (Auto)
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP431756	VCP436063	VCP418306
Sample Date		Client Info		26 Dec 2023	20 Sep 2023	30 Jun 2023
Machine Age	hrs	Client Info		2127	1554	1057
Oil Age	hrs	Client Info		0	0	1057
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>160	▲ 261	▲ 234	▲ 182
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>50	2	2	2
Lead	ppm	ASTM D5185m	>50	0	<1	0
Copper	ppm	ASTM D5185m	>225	11	11	8
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	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 fluid.

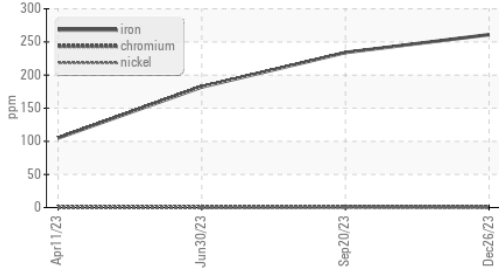
Silicon	ppm	ASTM D5185m	>20	15	11	14
Potassium	ppm	ASTM D5185m	>20	2	2	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

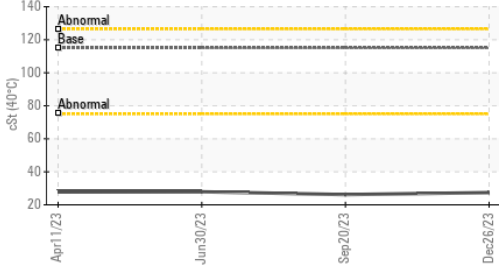
The fluid viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>158	6	6	3
Boron	ppm	ASTM D5185m	250	60	36	80
Barium	ppm	ASTM D5185m	10	0	<1	<1
Molybdenum	ppm	ASTM D5185m	100	0	0	<1
Manganese	ppm	ASTM D5185m		10	10	9
Magnesium	ppm	ASTM D5185m	450	▲ 2	<1	2
Calcium	ppm	ASTM D5185m	3000	▲ 73	83	83
Phosphorus	ppm	ASTM D5185m	1150	▲ 196	175	204
Zinc	ppm	ASTM D5185m	1350	▲ 28	69	26
Sulfur	ppm	ASTM D5185m	4250	1628	1538	2171
Visc @ 40°C	cSt	ASTM D445	115	▲ 27.4	26.2	27.9

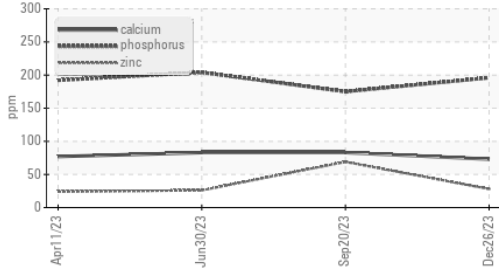
▲ Ferrous Alloys



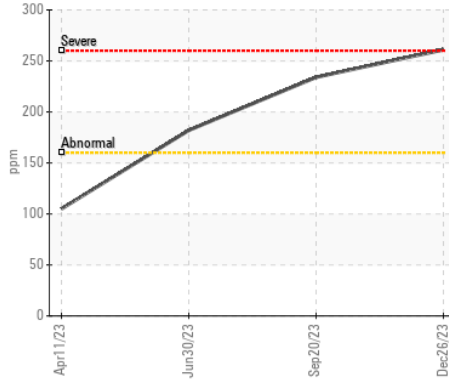
▲ Viscosity @ 40°C



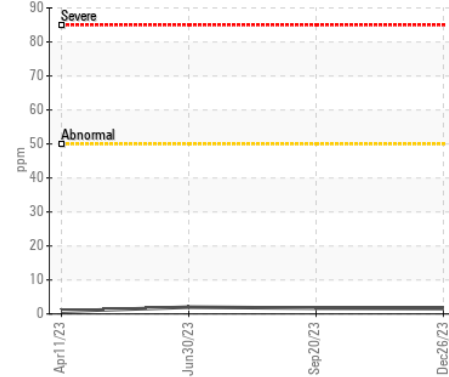
▲ Additives



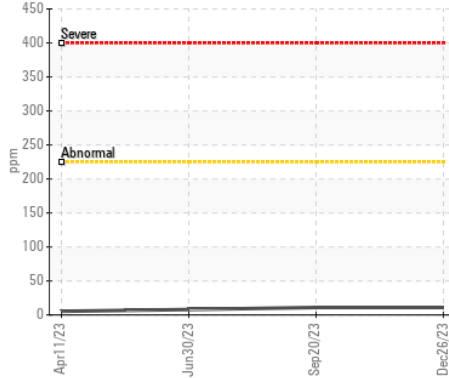
▲ Iron (ppm)



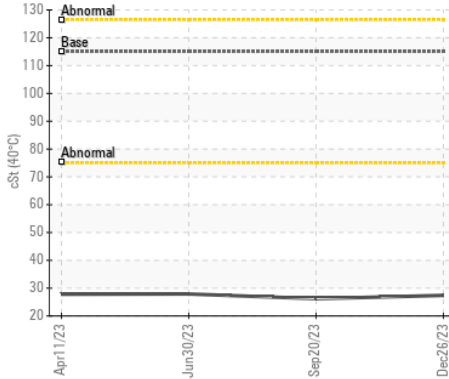
▲ Aluminum (ppm)



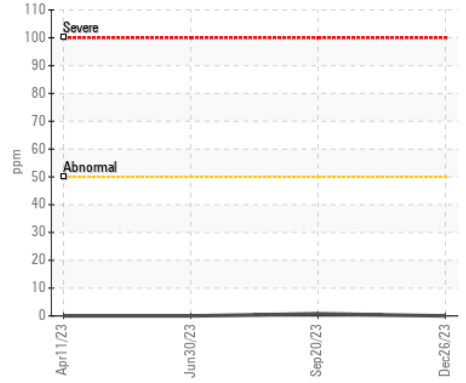
▲ Copper (ppm)



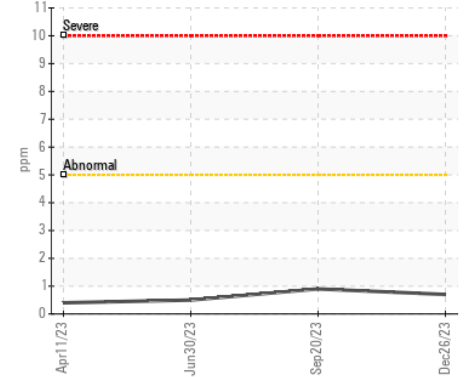
▲ Viscosity @ 40°C



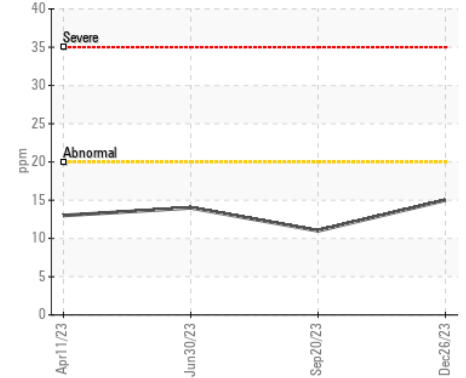
▲ Lead (ppm)



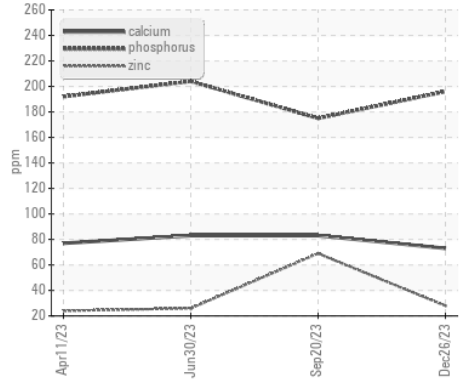
▲ Chromium (ppm)



▲ Silicon (ppm)



▲ Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP431756 **Received** : 11 Jan 2024
Lab Number : 06058526 **Diagnosed** : 14 Jan 2024
Unique Number : 10829908 **Diagnostician** : Don Baldridge
Test Package : MOB 1

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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)