



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[608826]
Machine Id
VOLVO A40D 70043
Component
Drop Box
Fluid
VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP449846	VCP383631	VCP232700
Sample Date		Client Info		22 May 2024	02 Nov 2022	17 Jul 2019
Machine Age	hrs	Client Info		15722	14041	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	15	278	136
Chromium	ppm	ASTM D5185m	>20	0	5	1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		0	41	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	0	5	10
Lead	ppm	ASTM D5185m	>30	0	<1	2
Copper	ppm	ASTM D5185m	>30	2	5	1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

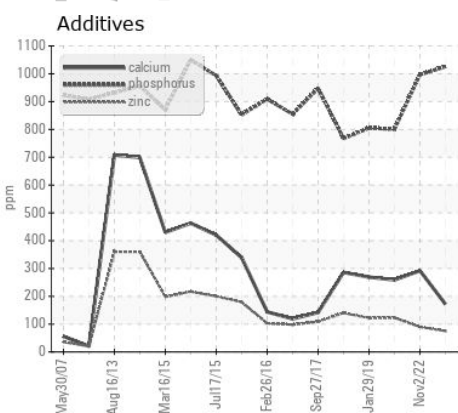
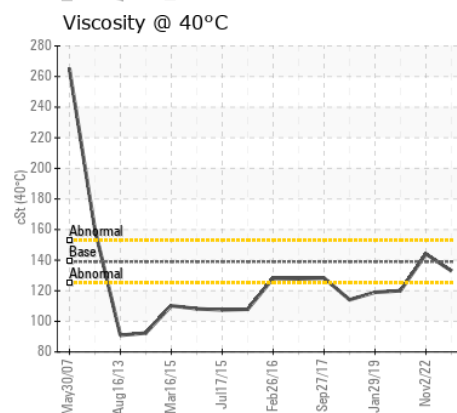
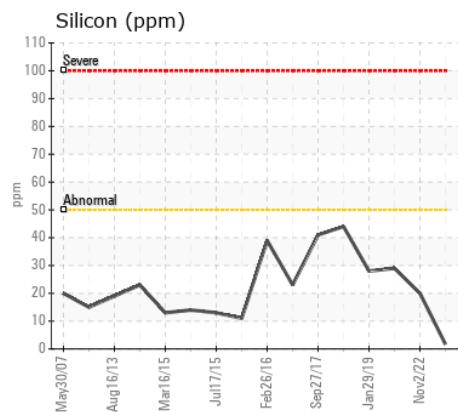
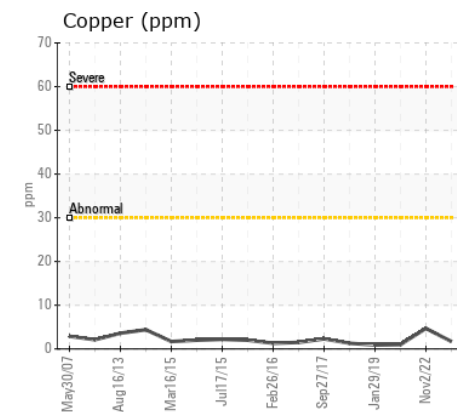
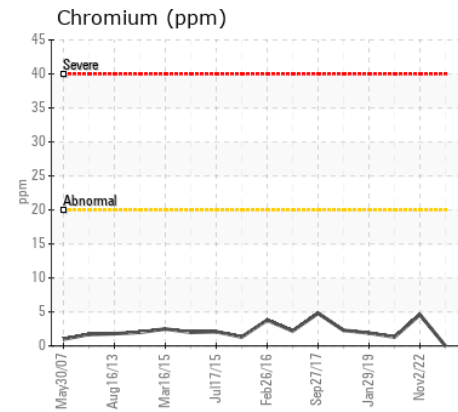
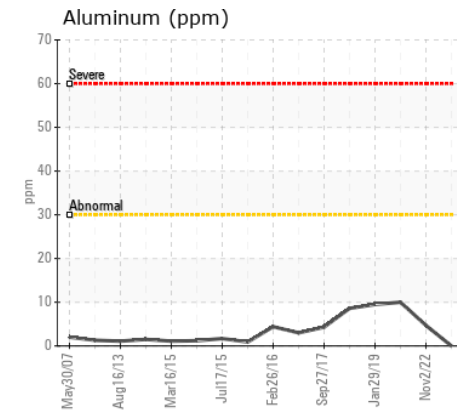
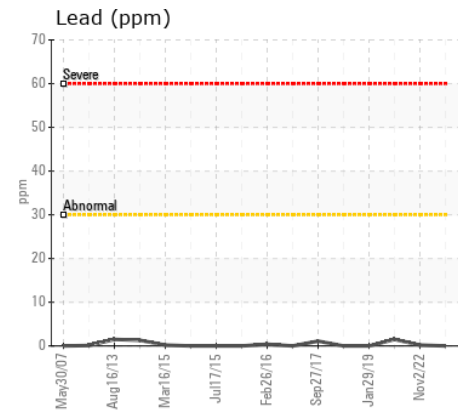
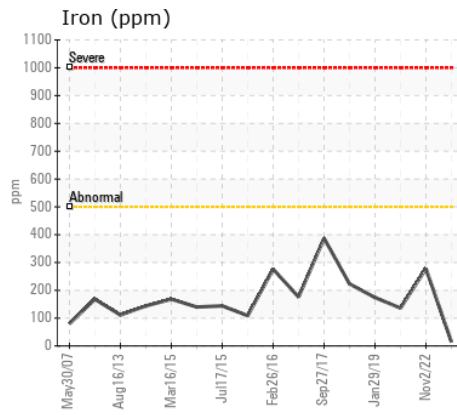
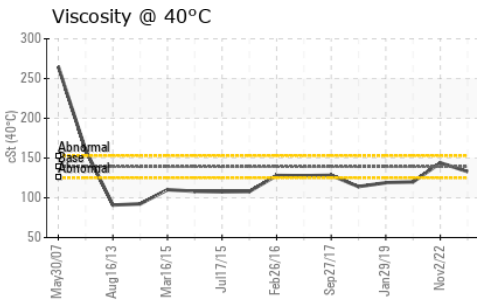
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	2	20	29
Potassium	ppm	ASTM D5185m	>20	0	4	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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		0	34	14
Boron	ppm	ASTM D5185m	379	102	125	78
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.8	<1	17	2
Manganese	ppm	ASTM D5185m	0.0	<1	12	2
Magnesium	ppm	ASTM D5185m	31	27	10	12
Calcium	ppm	ASTM D5185m	38	172	292	259
Phosphorus	ppm	ASTM D5185m	1077	1026	997	801
Zinc	ppm	ASTM D5185m	46	75	90	123
Sulfur	ppm	ASTM D5185m	23526	25278	29098	20127
Visc @ 40°C	cSt	ASTM D445	139	133	144	120



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP449846 **Received** : 29 May 2024
Lab Number : 06194384 **Tested** : 31 May 2024
Unique Number : 11056507 **Diagnosed** : 31 May 2024 - Wes Davis
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)