



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W02007860]
 Machine Id
VOLVO L330E 62190
 Component
Hydraulic System
 Fluid
MOBIL HYDRAULIC OIL AW 46 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP447922	VCP377295	VCP302865
Sample Date		Client Info		04 Jan 2024	07 Jul 2022	11 Feb 2021
Machine Age	hrs	Client Info		6177	19334	12139
Oil Age	hrs	Client Info		4000	2000	500
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	0	6
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>150	1	<1	5
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

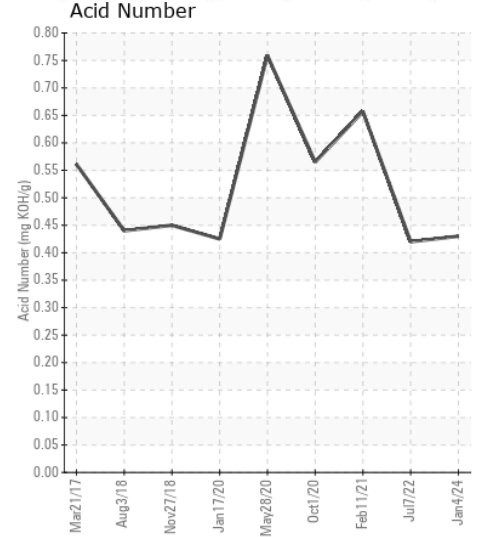
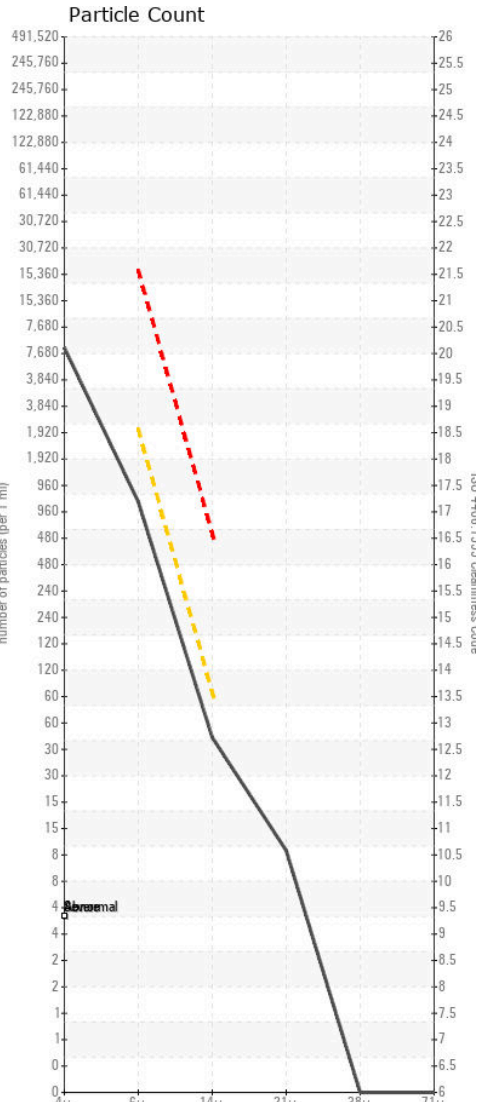
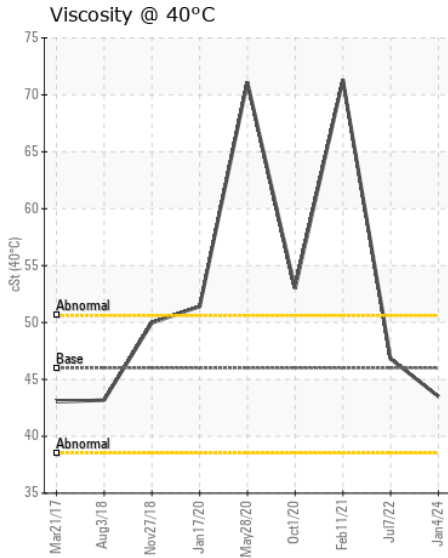
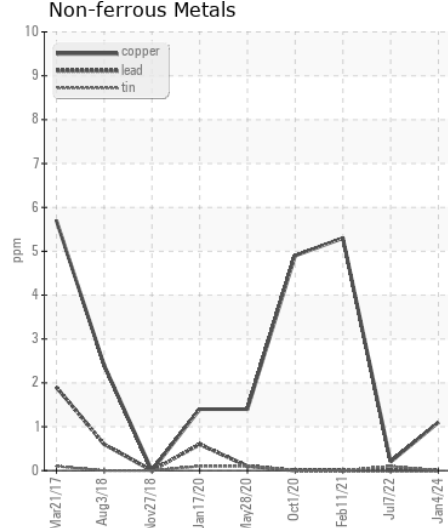
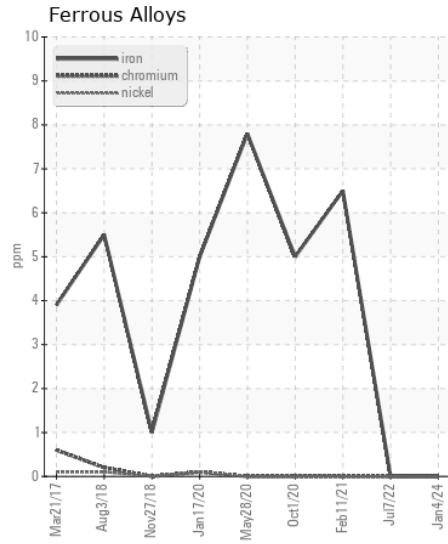
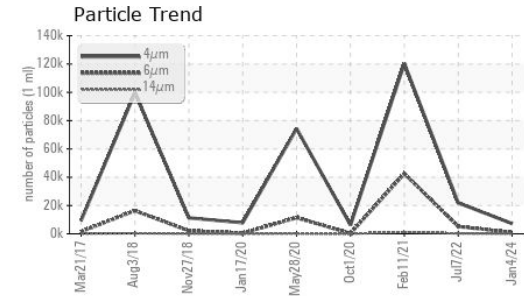
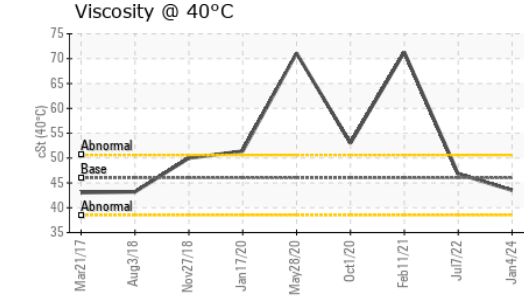
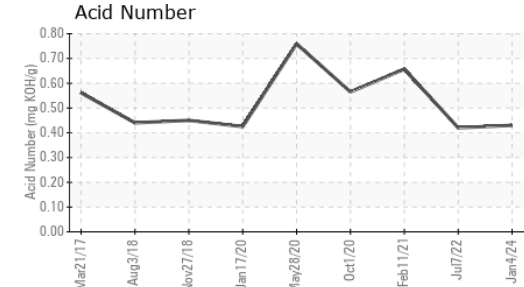
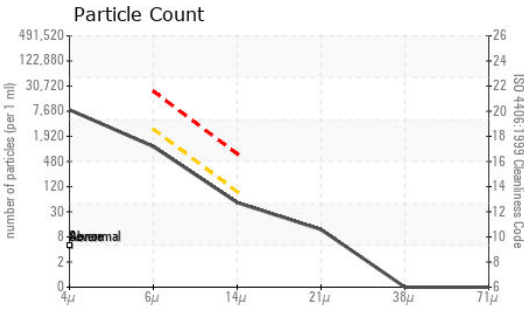
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	0	2	4
Potassium	ppm	ASTM D5185m	>20	0	<1	16
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		7225	21886	120331
Particles >6µm		ASTM D7647	>2500	960	▲ 5190	▲ 42607
Particles >14µm		ASTM D7647	>80	44	▲ 226	▲ 1237
Particles >21µm		ASTM D7647	>20	10	19	▲ 180
Particles >38µm		ASTM D7647	>4	0	1	▲ 8
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>-/18/13	20/17/13	▲ 22/20/15	▲ 24/23/17
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 AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	0	2
Boron	ppm	ASTM D5185m		4	3	▲ 38
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	▲ 25
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		39	14	▲ 294
Calcium	ppm	ASTM D5185m		198	88	▲ 912
Phosphorus	ppm	ASTM D5185m		351	343	608
Zinc	ppm	ASTM D5185m		398	441	647
Sulfur	ppm	ASTM D5185m		1489	2707	▲ 2132
Acid Number (AN)	mg KOH/g	ASTM D8045		0.43	0.42	0.657
Visc @ 40°C	cSt	ASTM D445	46	43.5	46.8	▲ 71.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP447922 **Received** : 08 Jan 2024
Lab Number : 06054751 **Diagnosed** : 10 Jan 2024
Unique Number : 10820700 **Diagnostician** : Don Baldrige
Test Package : MOB 2

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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)