



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Machine Id
VOLVO L60H 621299
Component
Diesel Engine
Fluid
CHEVRON 15W40 (5 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		ML0000024	VCP387984	VCP344982
Sample Date		Client Info		09 Apr 2024	22 Mar 2023	16 Feb 2022
Machine Age	hrs	Client Info		4503	3890	3273
Oil Age	hrs	Client Info		613	0	0
Filter Age	hrs	Client Info		613	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	6	11	15
Chromium	ppm	ASTM D5185m	>10	<1	1	2
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		2	<1	5
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	3	10	11
Lead	ppm	ASTM D5185m	>20	1	0	1
Copper	ppm	ASTM D5185m	>15	1	2	2
Tin	ppm	ASTM D5185m	>10	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

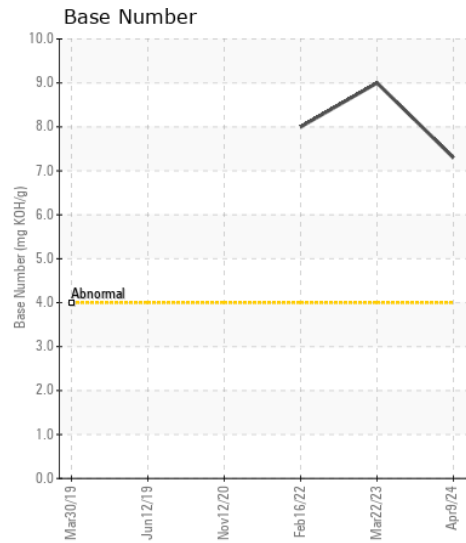
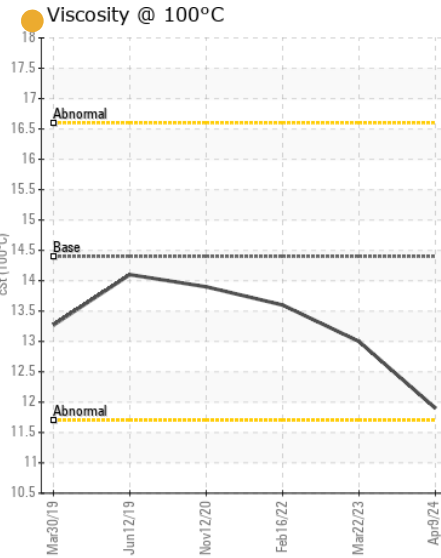
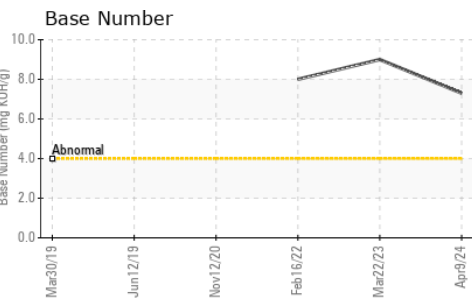
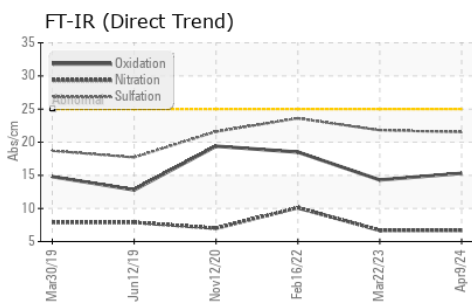
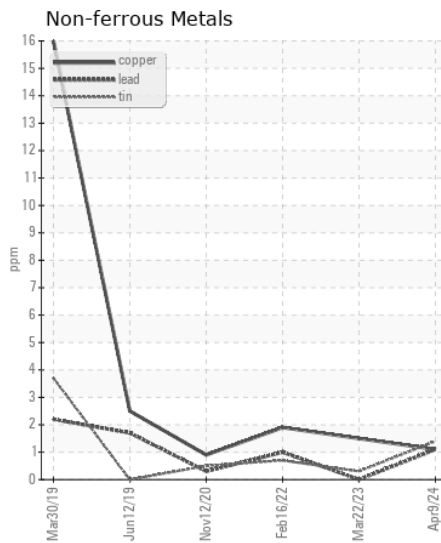
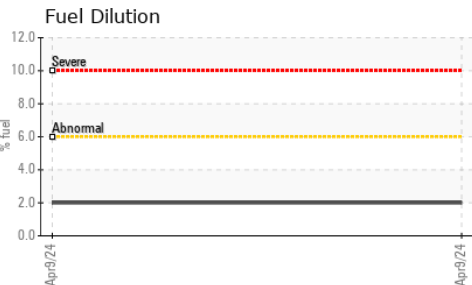
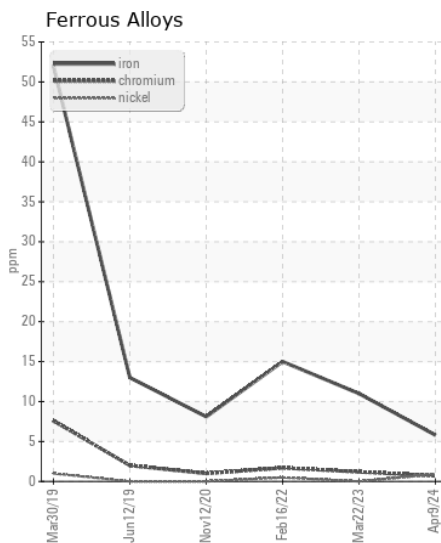
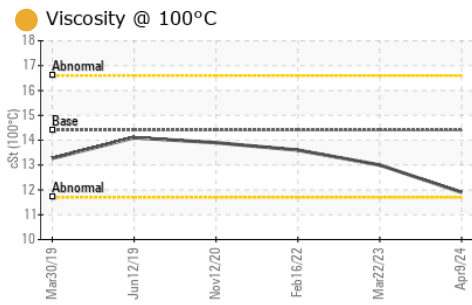
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	5	8	7
Potassium	ppm	ASTM D5185m	>20	1	2	2
Fuel	%	ASTM D3524	>6.0	2.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.7	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	21.8	23.6
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>50	0	1	2
Boron	ppm	ASTM D5185m		478	295	219
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		98	121	98
Manganese	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m		395	687	742
Calcium	ppm	ASTM D5185m		1387	1643	1693
Phosphorus	ppm	ASTM D5185m		1028	717	784
Zinc	ppm	ASTM D5185m		1084	891	901
Sulfur	ppm	ASTM D5185m		3219	2733	2682
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	14.3	18.5
Base Number (BN)	mg KOH/g	ASTM D2896		7.3	9.0	8.0
Visc @ 100°C	cSt	ASTM D445	14.4	11.9	13.0	13.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0000024
Lab Number : 06146894
Unique Number : 10976972
Test Package : CONST (Additional Tests: FUELDILUTION, PercentFuel, TBN)

RELIABLE CONTRACTING
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 GAMBRILLS, MD
 US 21054
 Contact: RUSSELL HATFIELD
 RHATFIELD@RELIABLECONTRACTING.COM

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)