



VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Machine Id
VOLVO EC240BLC 11321
Component
Hydraulic System
Fluid
{not provided} (--- 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		VCE166855	VC325143	VC216480
Sample Date		Client Info		14 Jun 2024	03 Jan 2008	01 Aug 2005
Machine Age	hrs	Client Info		12277	3277	1034
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		Not Changed	N/A	Not Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The iron level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	▲ 39	9	7
Chromium	ppm	ASTM D5185m	>10	5	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	2	<1
Lead	ppm	ASTM D5185m	>20	1	0	1
Copper	ppm	ASTM D5185m	>150	8	5	5
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	LIGHT	VLITE	▲ LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

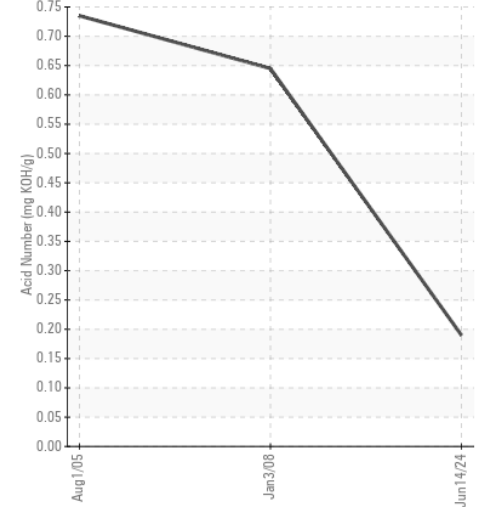
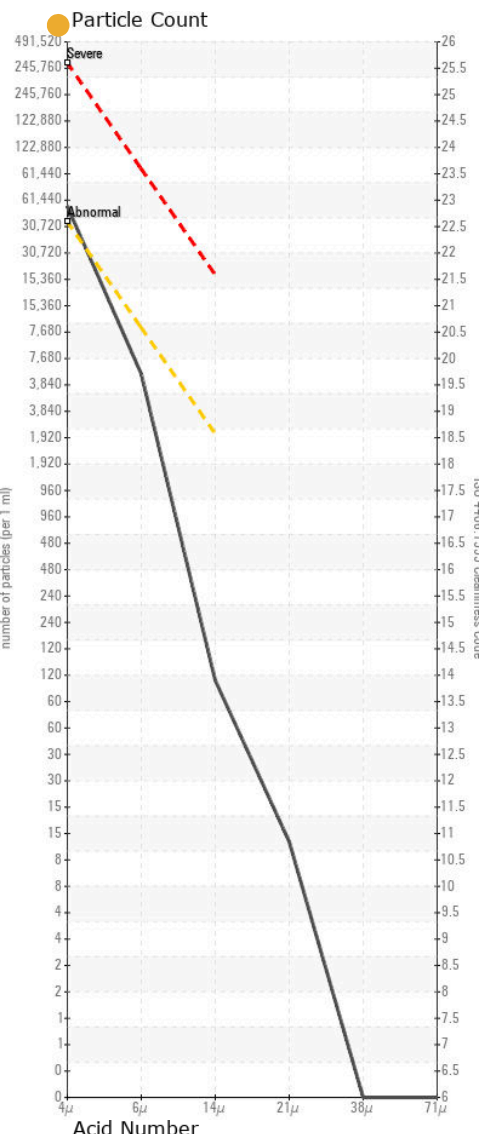
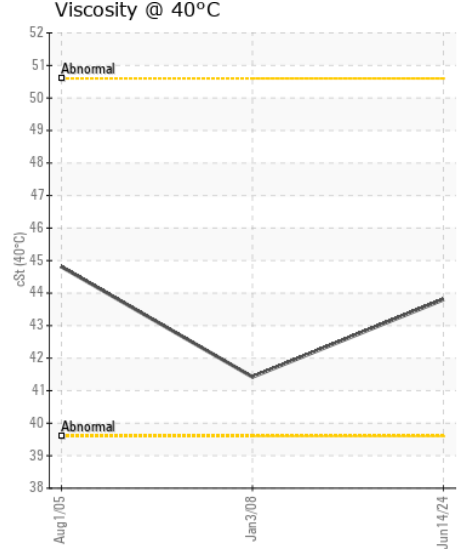
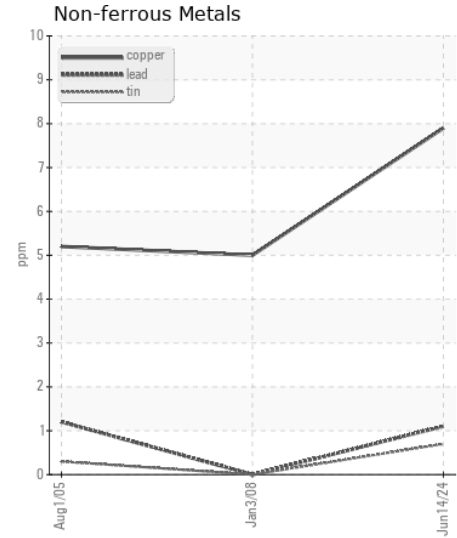
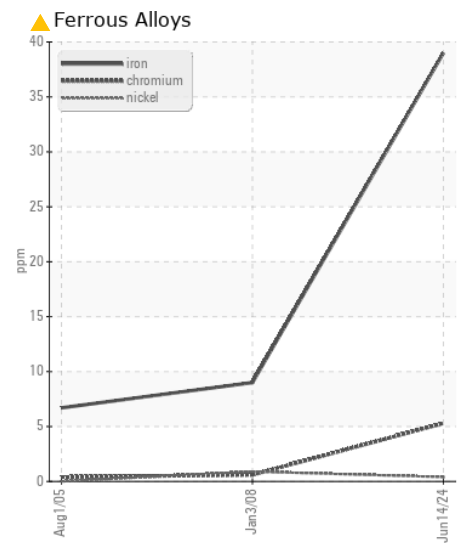
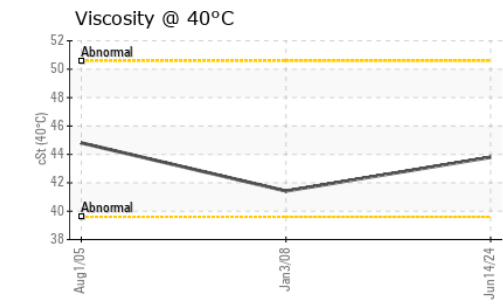
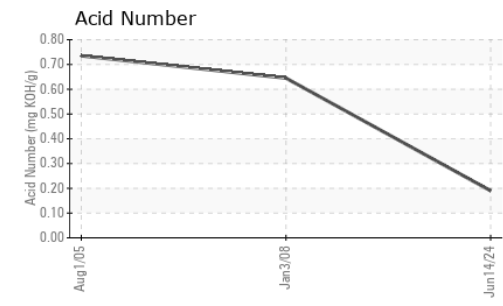
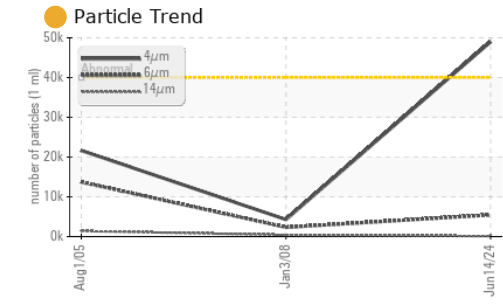
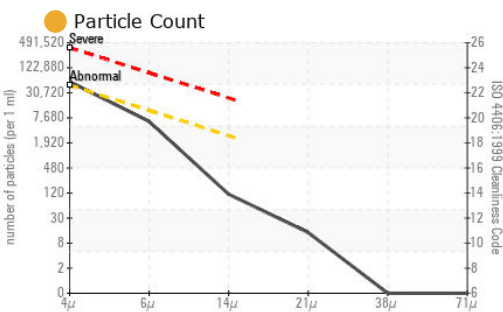
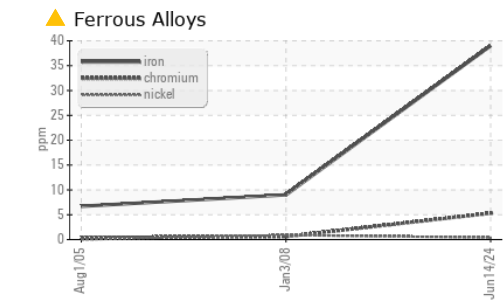
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>50	11	3	6
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>40000	● 49004	4280	21659
Particles >6µm		ASTM D7647	>10000	5461	2331	13722
Particles >14µm		ASTM D7647	>2500	99	▲ 397	▲ 1387
Particles >21µm		ASTM D7647	>640	12	▲ 134	▲ 153
Particles >38µm		ASTM D7647	>160	0	▲ 20	9
Particles >71µm		ASTM D7647	>40	0	▲ 2	0
Oil Cleanliness		ISO 4406 (c)	>22/20/18	● 23/20/14	▲ 19/18/16	▲ 22/21/18
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	<1	<1
Boron	ppm	ASTM D5185m		4	6	13
Barium	ppm	ASTM D5185m		1	0	2
Molybdenum	ppm	ASTM D5185m		3	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		3	2	6
Calcium	ppm	ASTM D5185m		203	350	461
Phosphorus	ppm	ASTM D5185m		399	516	430
Zinc	ppm	ASTM D5185m		485	558	496
Sulfur	ppm	ASTM D5185m		2852	3908	1847
Acid Number (AN)	mg KOH/g	ASTM D8045		0.19	0.645	0.735
Visc @ 40°C	cSt	ASTM D445		43.8	41.42	44.81



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VGE166855 **Received** : 21 Jun 2024
Lab Number : 06217257 **Tested** : 25 Jun 2024
Unique Number : 11090121 **Diagnosed** : 25 Jun 2024 - 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)