



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
VOLVO EC250E 310119
Component
Hydraulic System
Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

The 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		VCP449590	VCP216029	VCP193568
Sample Date		Client Info		22 Jun 2024	15 Nov 2017	07 Apr 2017
Machine Age	hrs	Client Info		14587	4665	3028
Oil Age	hrs	Client Info		0	0	2000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not 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	>25	1	7	5
Chromium	ppm	ASTM D5185m	>10	0	3	2
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	0	1	1
Lead	ppm	ASTM D5185m	>20	0	0	1
Copper	ppm	ASTM D5185m	>150	3	11	17
Tin	ppm	ASTM D5185m	>10	0	0	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

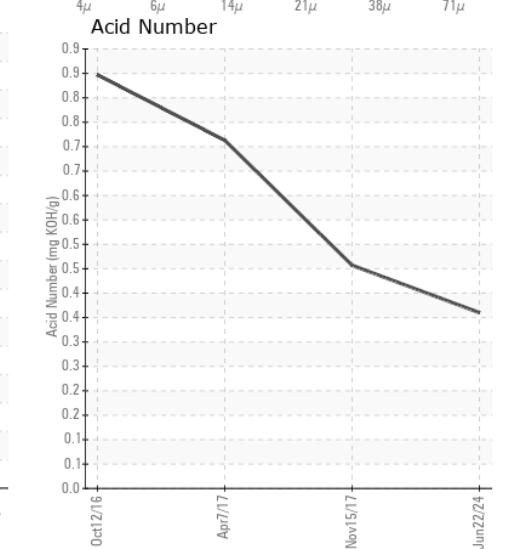
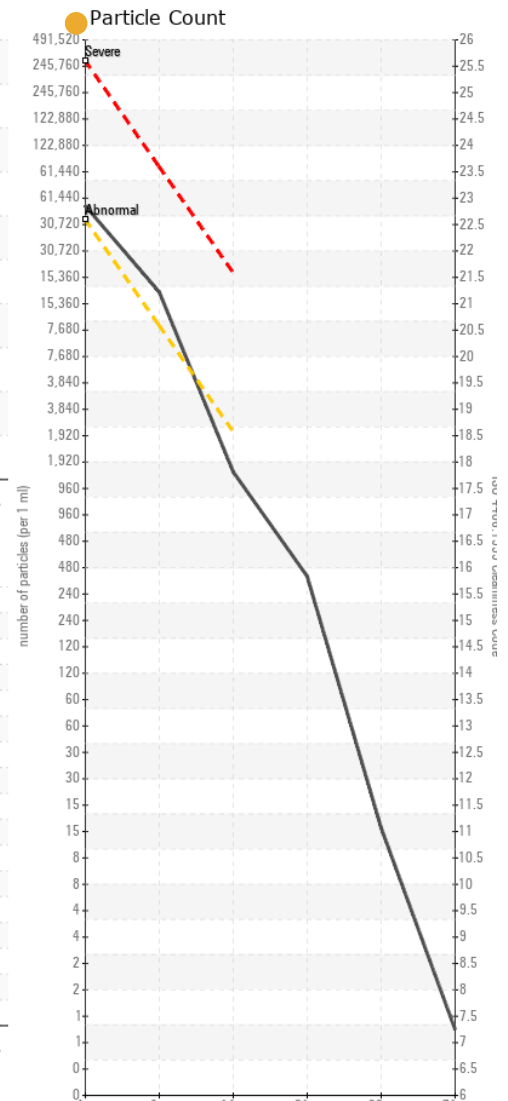
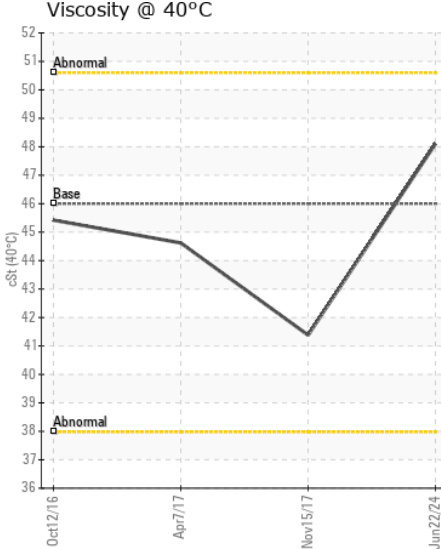
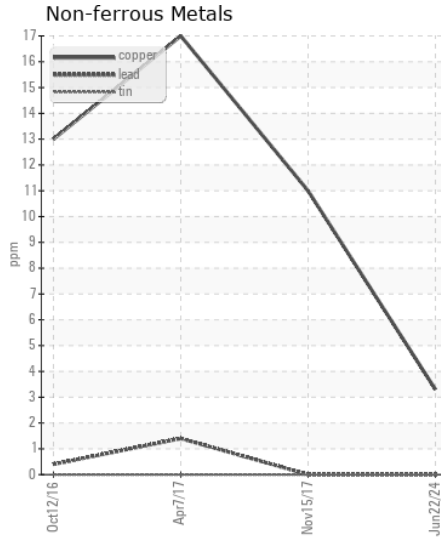
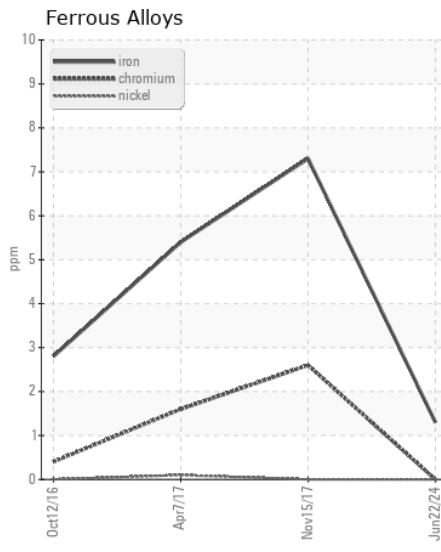
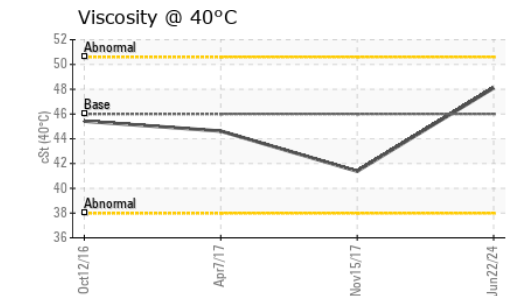
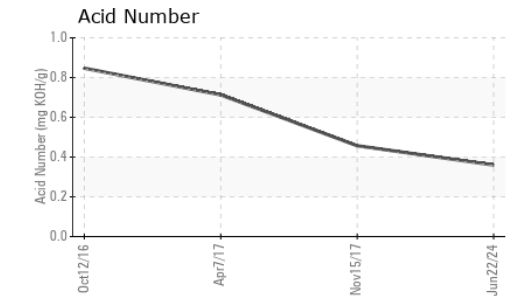
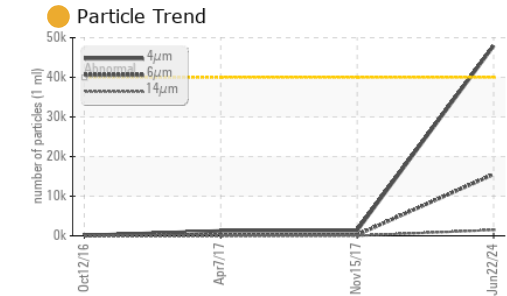
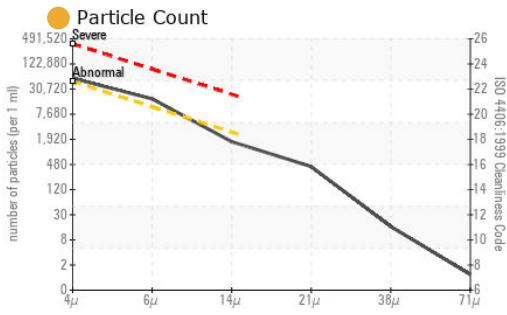
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>50	2	11	12
Potassium	ppm	ASTM D5185m	>20	<1	4	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>40000	47925	1304	1260
Particles >6µm		ASTM D7647	>10000	15536	259	134
Particles >14µm		ASTM D7647	>2500	1477	19	26
Particles >21µm		ASTM D7647	>640	376	6	12
Particles >38µm		ASTM D7647	>160	14	1	5
Particles >71µm		ASTM D7647	>40	1	0	4
Oil Cleanliness		ISO 4406 (c)	>22/20/18	23/21/18	18/15/11	17/14/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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 suitable for further service.

Sodium	ppm	ASTM D5185m		<1	4	3
Boron	ppm	ASTM D5185m	14	0	2	1
Barium	ppm	ASTM D5185m	0.0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0.0	0	0	<1
Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	2.6	4	5	3
Calcium	ppm	ASTM D5185m	49	18	127	129
Phosphorus	ppm	ASTM D5185m	354	294	406	505
Zinc	ppm	ASTM D5185m	419	330	535	620
Sulfur	ppm	ASTM D5185m	3719	1539	1922	1883
Acid Number (AN)	mg KOH/g	ASTM D8045		0.36	0.457	0.713
Visc @ 40°C	cSt	ASTM D445	46	48.1	41.38	44.62



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP449590 **Received** : 26 Jun 2024
Lab Number : 06221127 **Tested** : 27 Jun 2024
Unique Number : 11099324 **Diagnosed** : 27 Jun 2024 - Wes Davis
Test Package : MOB 2

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302

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)