



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[SPM717258 MILBURN]
 Machine Id
VOLVO EC300DL 210200
 Component
Hydraulic System
 Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP444205	VCP420695	VCP343319
Sample Date		Client Info		07 Jun 2024	12 Sep 2023	24 Jan 2022
Machine Age	hrs	Client Info		6458	5950	5355
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	4	9	7
Chromium	ppm	ASTM D5185m	>10	2	5	4
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	<1	0
Lead	ppm	ASTM D5185m	>20	1	<1	<1
Copper	ppm	ASTM D5185m	>150	2	24	17
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

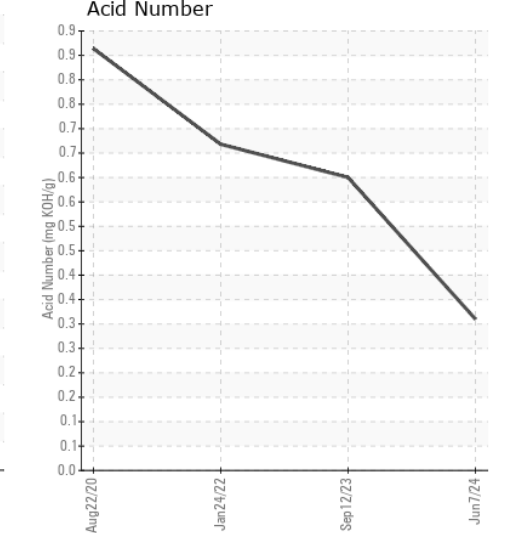
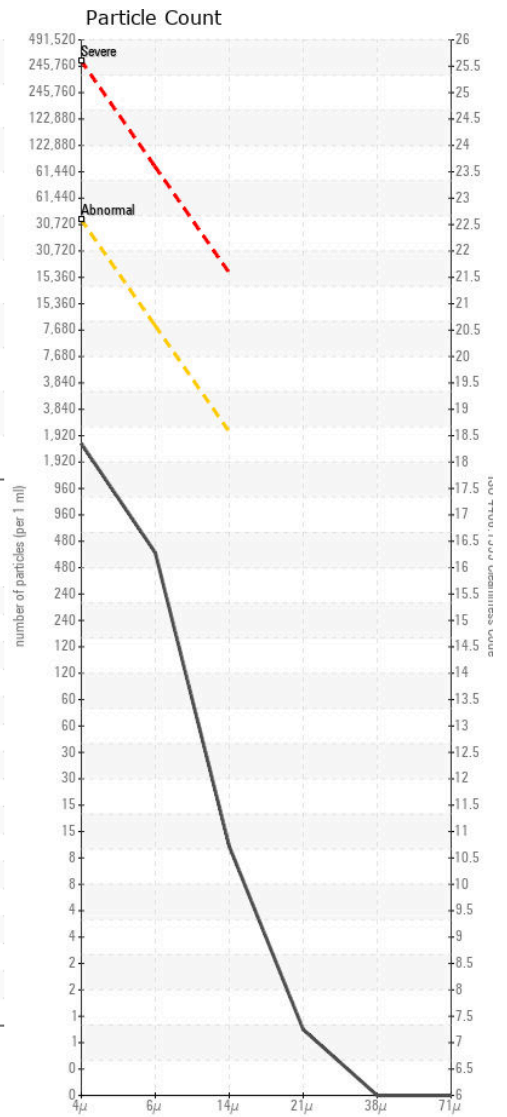
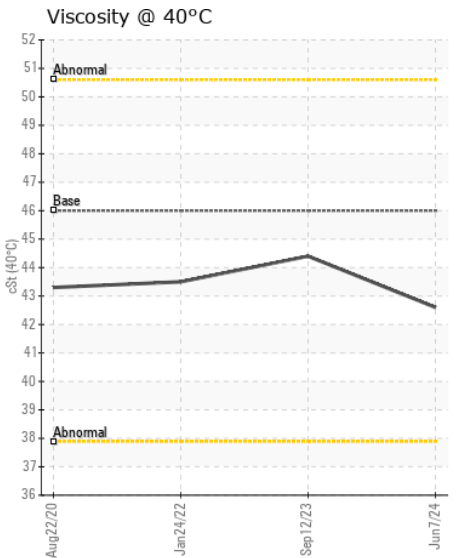
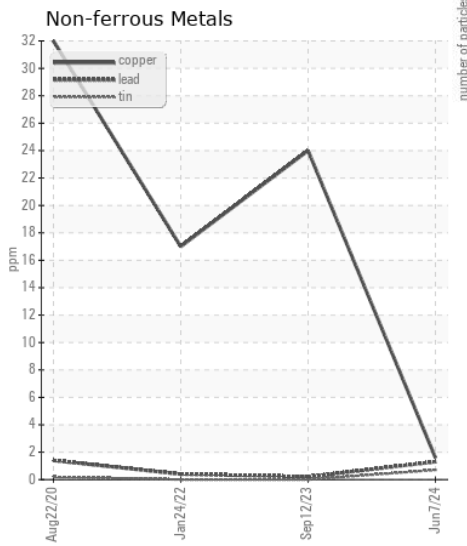
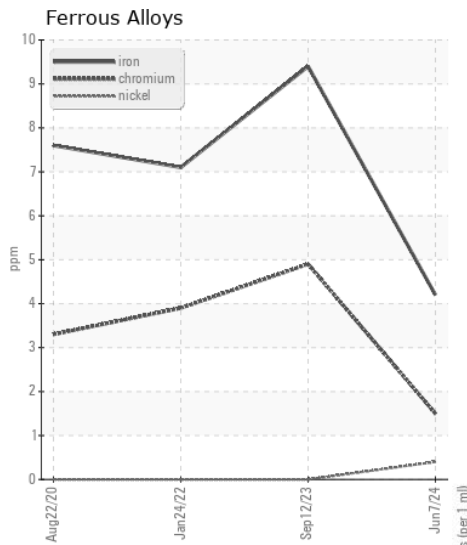
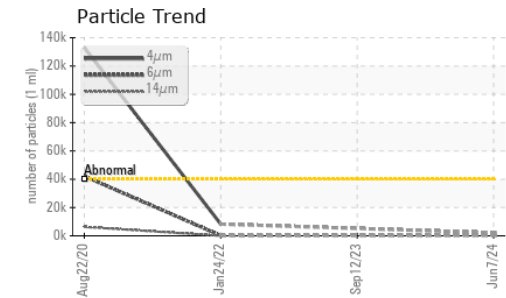
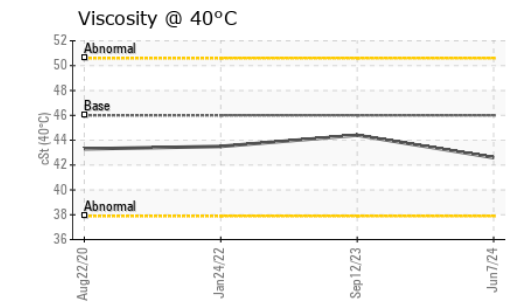
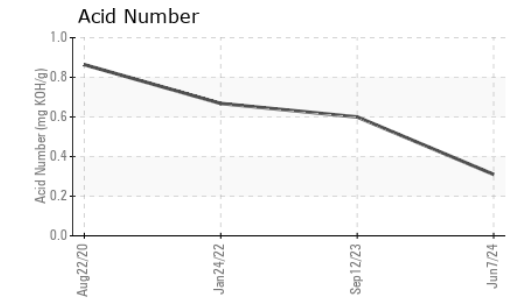
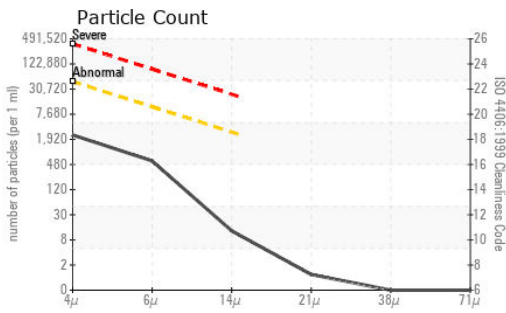
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>50	2	8	4
Potassium	ppm	ASTM D5185m	>20	1	<1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>40000	2137	---	8273
Particles >6µm		ASTM D7647	>10000	513	---	190
Particles >14µm		ASTM D7647	>2500	11	---	11
Particles >21µm		ASTM D7647	>640	1	---	3
Particles >38µm		ASTM D7647	>160	0	---	0
Particles >71µm		ASTM D7647	>40	0	---	0
Oil Cleanliness		ISO 4406 (c)	>22/20/18	18/16/11	---	20/15/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	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		0	2	0
Boron	ppm	ASTM D5185m	14	0	15	2
Barium	ppm	ASTM D5185m	0.0	1	0	0
Molybdenum	ppm	ASTM D5185m	0.0	<1	<1	<1
Manganese	ppm	ASTM D5185m	0.0	<1	<1	0
Magnesium	ppm	ASTM D5185m	2.6	1	10	7
Calcium	ppm	ASTM D5185m	49	40	610	156
Phosphorus	ppm	ASTM D5185m	354	391	778	742
Zinc	ppm	ASTM D5185m	419	471	1008	909
Sulfur	ppm	ASTM D5185m	3719	1217	3333	2391
Acid Number (AN)	mg KOH/g	ASTM D8045		0.31	0.60	0.668
Visc @ 40°C	cSt	ASTM D445	46	42.6	44.4	43.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : VCP444205
 Lab Number : 06216786
 Unique Number : 11089650
 Test Package : MOB 2

Received : 21 Jun 2024
 Tested : 24 Jun 2024
 Diagnosed : 24 Jun 2024 - Wes Davis

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406

Contact: MARK DEROSA
 mark.derosa@altg.com

T: (248)356-5200

F:

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)