



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Area

[730276]

Machine Id

VOLVO ECR88D 212899

Component

Hydraulic System

Fluid

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. 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		VCP453540	VCP341112	VCP254964
Sample Date		Client Info		18 Jun 2024	16 Jun 2022	28 Aug 2019
Machine Age	hrs	Client Info		5977	3980	1897
Oil Age	hrs	Client Info		2000	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ATTENTION	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	13	48	7
Chromium	ppm	ASTM D5185m	>10	2	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	<1	<1
Lead	ppm	ASTM D5185m	>20	1	<1	<1
Copper	ppm	ASTM D5185m	>150	12	119	14
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

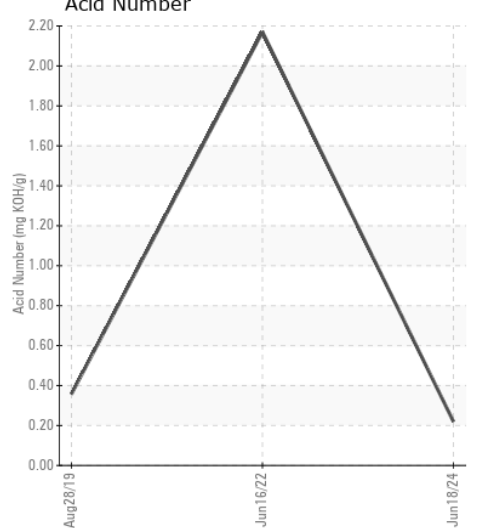
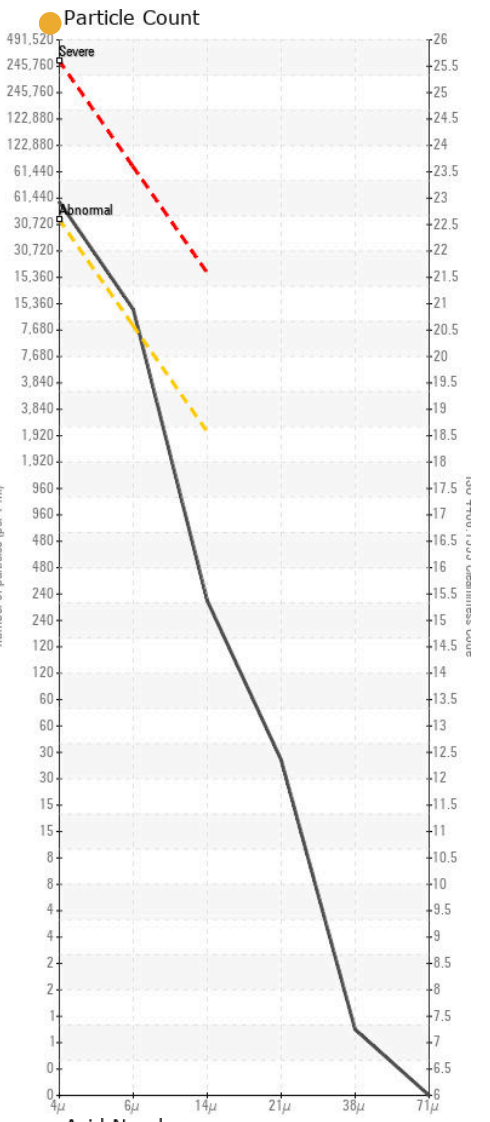
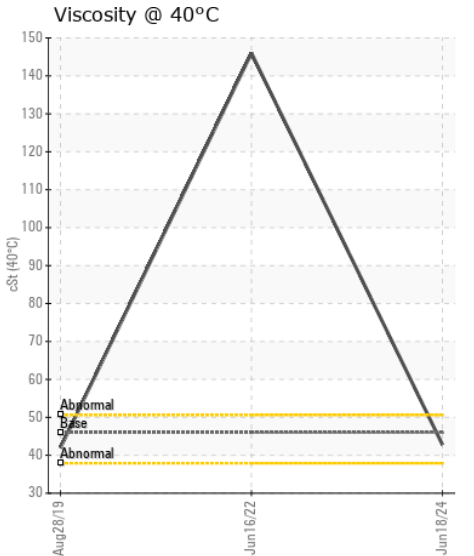
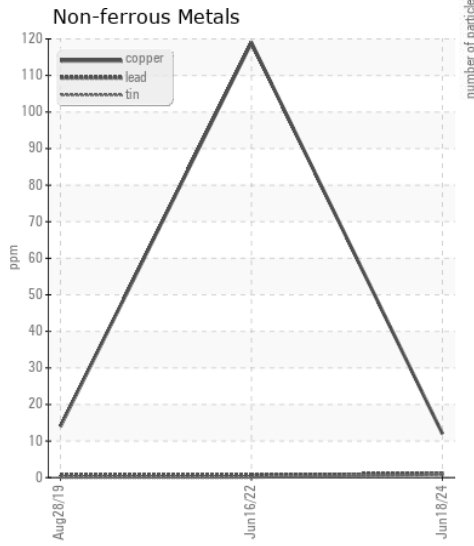
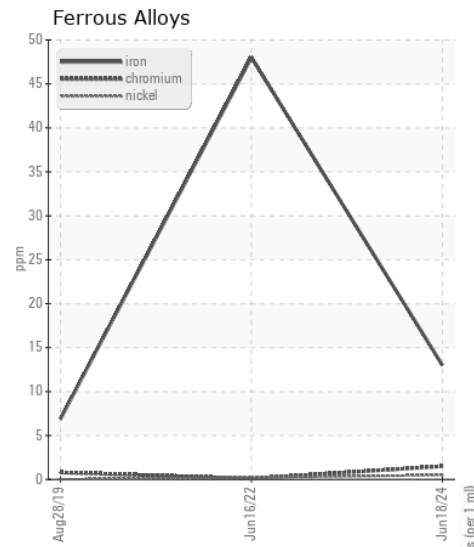
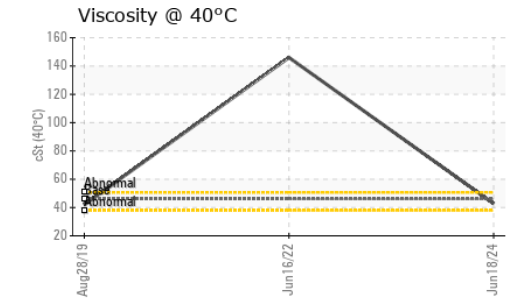
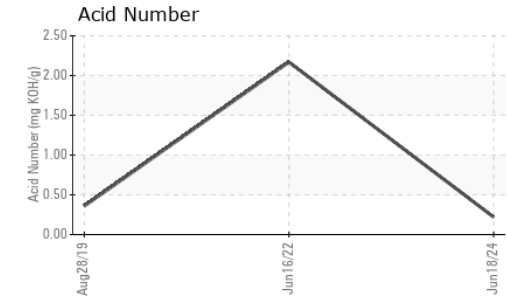
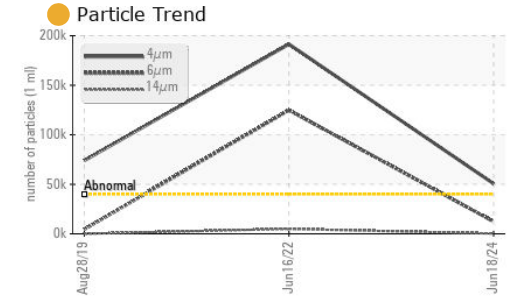
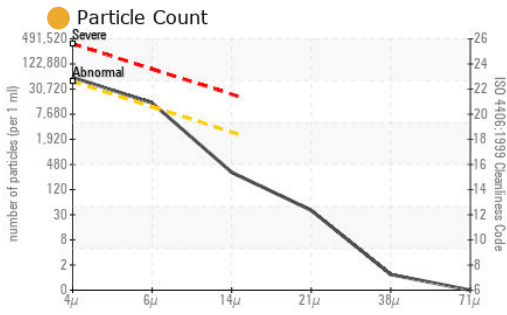
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>50	6	4	4
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>40000	50549	191446	73994
Particles >6µm		ASTM D7647	>10000	12399	124854	4581
Particles >14µm		ASTM D7647	>2500	274	4959	19
Particles >21µm		ASTM D7647	>640	34	127	4
Particles >38µm		ASTM D7647	>160	1	1	2
Particles >71µm		ASTM D7647	>40	0	1	2
Oil Cleanliness		ISO 4406 (c)	>22/20/18	23/21/15	25/24/19	23/19/11
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 suitable for further service.

Sodium	ppm	ASTM D5185m		0	<1	<1
Boron	ppm	ASTM D5185m	14	5	151	1
Barium	ppm	ASTM D5185m	0.0	2	0	<1
Molybdenum	ppm	ASTM D5185m	0.0	4	0	<1
Manganese	ppm	ASTM D5185m	0.0	1	1	<1
Magnesium	ppm	ASTM D5185m	2.6	36	<1	11
Calcium	ppm	ASTM D5185m	49	502	17	115
Phosphorus	ppm	ASTM D5185m	354	482	1844	348
Zinc	ppm	ASTM D5185m	419	575	98	442
Sulfur	ppm	ASTM D5185m	3719	1930	20735	1056
Acid Number (AN)	mg KOH/g	ASTM D8045		0.22	2.17	0.358
Visc @ 40°C	cSt	ASTM D445	46	42.8	146	42.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP453540
Lab Number : 06216792
Unique Number : 11089656
Test Package : MOB 2

Received : 21 Jun 2024
Tested : 24 Jun 2024
Diagnosed : 24 Jun 2024 - Don Baldrige

BLAZE CONSTRUCTION
 5640 ST JEAN ST
 DETROIT, MI
 US 48213
 Contact: DAVE WARD
 dward@blazecontracting.net
 T: (248)632-2317
 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)