



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[42348 COOGLER CONS]
 Machine Id
VOLVO EC380EL 310040
 Component
Hydraulic System
 Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP409015	VCP203326	VCP218372
Sample Date		Client Info		15 Jul 2024	22 Jun 2018	06 Nov 2017
Machine Age	hrs	Client Info		1134	3730	2225
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Not Changed	N/A	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	3	10	5
Chromium	ppm	ASTM D5185m	>10	2	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	3	0
Lead	ppm	ASTM D5185m	>20	0	0	1
Copper	ppm	ASTM D5185m	>150	16	41	40
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

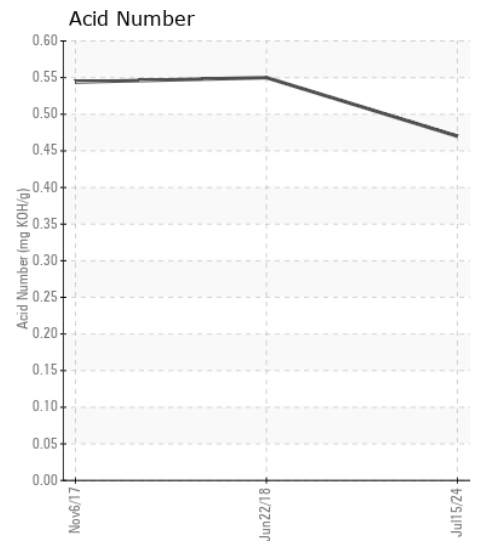
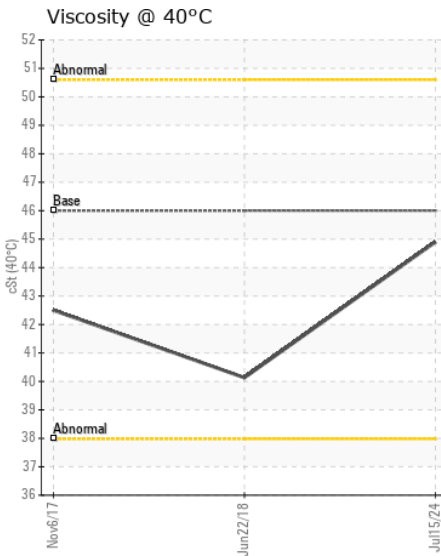
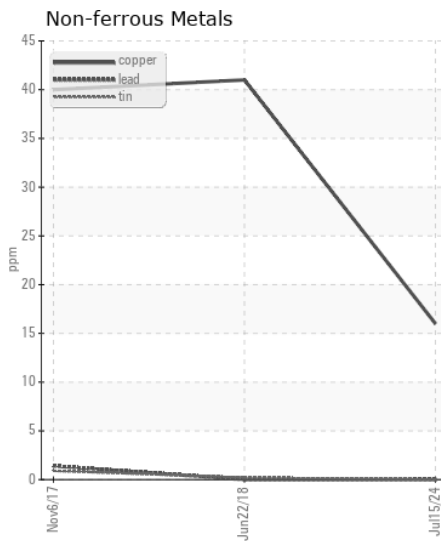
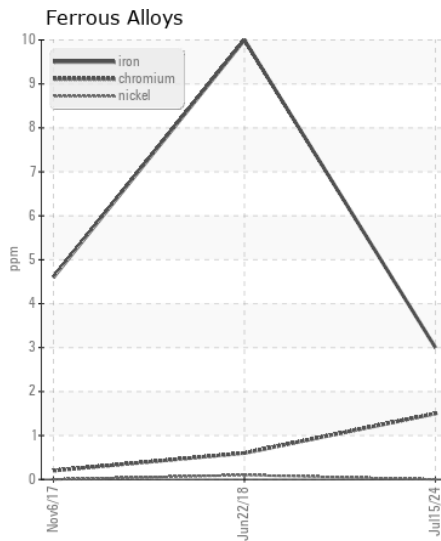
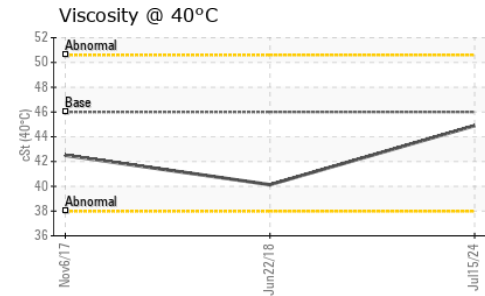
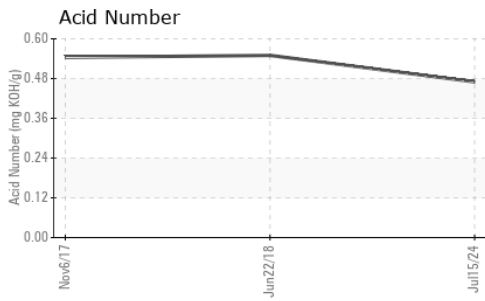
Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>50	3	25	3
Potassium	ppm	ASTM D5185m	>20	0	3	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>40000	---	31321	42618
Particles >6µm		ASTM D7647	>10000	---	1484	7573
Particles >14µm		ASTM D7647	>2500	---	19	247
Particles >21µm		ASTM D7647	>640	---	5	70
Particles >38µm		ASTM D7647	>160	---	0	9
Particles >71µm		ASTM D7647	>40	---	0	4
Oil Cleanliness		ISO 4406 (c)	>22/20/18	---	22/18/11	23/20/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE	VLITE
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	3	<1
Boron	ppm	ASTM D5185m	14	0	2	<1
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	0	<1	0
Manganese	ppm	ASTM D5185m	0.0	0	<1	<1
Magnesium	ppm	ASTM D5185m	2.6	2	47	0
Calcium	ppm	ASTM D5185m	49	72	112	108
Phosphorus	ppm	ASTM D5185m	354	393	417	498
Zinc	ppm	ASTM D5185m	419	501	534	616
Sulfur	ppm	ASTM D5185m	3719	1297	1599	619
Acid Number (AN)	mg KOH/g	ASTM D8045		0.47	0.550	0.544
Visc @ 40°C	cSt	ASTM D445	46	44.9	40.13	42.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP409015
Lab Number : 06239554
Unique Number : 11128388
Test Package : MOB 2

Received : 17 Jul 2024
Tested : 19 Jul 2024
Diagnosed : 19 Jul 2024 - Don Baldrige

215 - ASCENDUM MACHINERY INC - CAYCE
 2303 AIRPORT BLVD
 CAYCE, SC
 US 29033

Contact: TAMI BROWDER
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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)

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