



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO EC480E 314146
Component
Left Swing Drive
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP441305	VCP419104	VCP403631
Sample Date		Client Info		31 Jan 2024	28 Aug 2023	03 May 2023
Machine Age	hrs	Client Info		6892	6421	5940
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	762	216	237
Chromium	ppm	ASTM D5185m	>10	8	2	2
Nickel	ppm	ASTM D5185m	>10	1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	5	2	0
Lead	ppm	ASTM D5185m	>50	<1	0	0
Copper	ppm	ASTM D5185m	>50	21	3	6
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

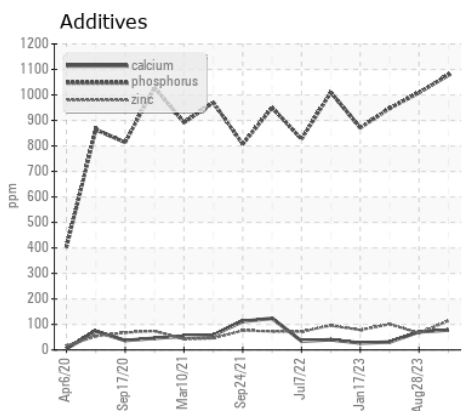
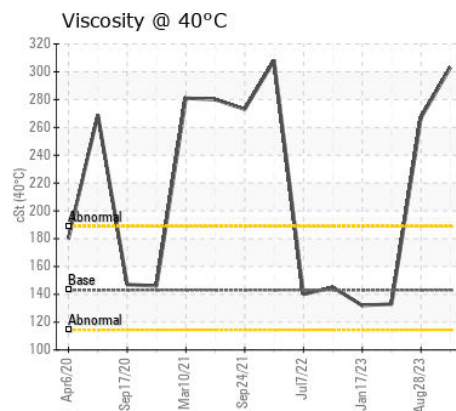
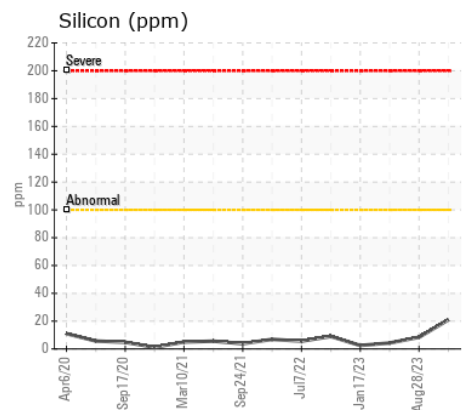
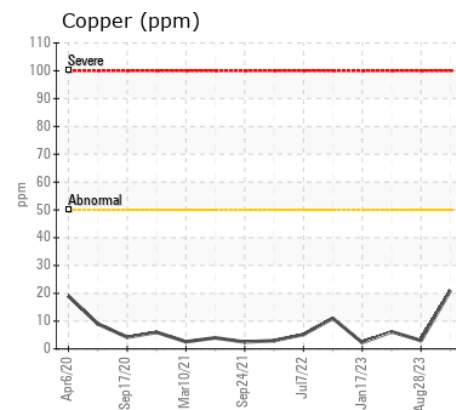
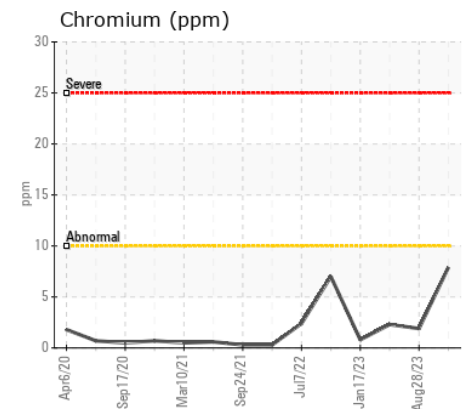
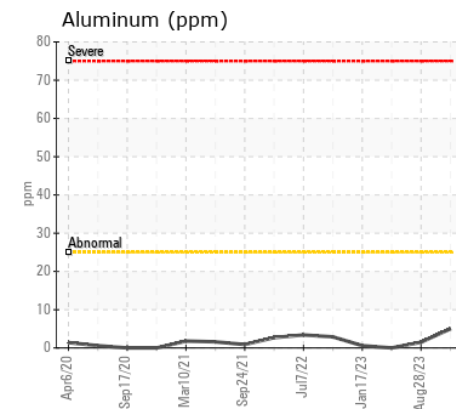
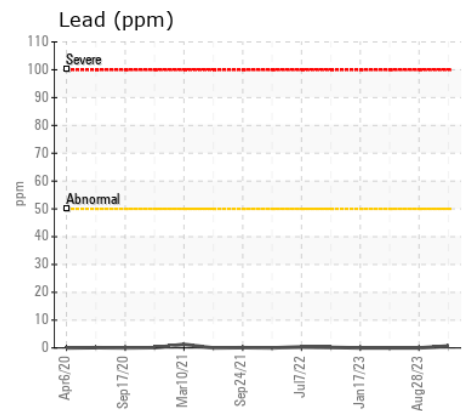
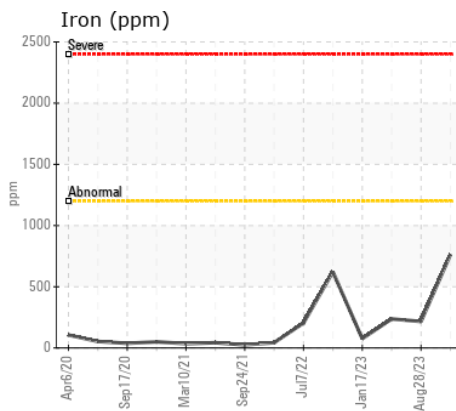
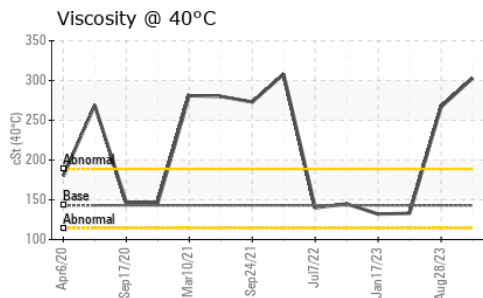
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	21	8	4
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>0.25	NEG	NEG	NEG

FLUID CONDITION

Confirm oil type. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>170	0	<1	<1
Boron	ppm	ASTM D5185m	400	143	139	22
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	6	1	3
Manganese	ppm	ASTM D5185m		7	2	2
Magnesium	ppm	ASTM D5185m	12	22	21	25
Calcium	ppm	ASTM D5185m	150	78	71	31
Phosphorus	ppm	ASTM D5185m	1650	1078	1009	947
Zinc	ppm	ASTM D5185m	125	114	66	101
Sulfur	ppm	ASTM D5185m	22500	22074	25966	22943
Visc @ 40°C	cSt	ASTM D445	143	303	267	133



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : VCP441305

Lab Number : 06085085

Unique Number : 10872530

Test Package : MOB 1

Received : 09 Feb 2024

Tested : 11 Feb 2024

Diagnosed : 12 Feb 2024 - Don Baldrige

SAIIA CONSTRUCTION LLC

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BIRMINGHAM, AL

US 35207

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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)