



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[SPM703646 ALPINE]
 Machine Id
VOLVO EC480E 391030
 Component
Left Final 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		VCP438291	VCP415237	VCP355047
Sample Date		Client Info		06 May 2024	12 Sep 2023	21 Jul 2022
Machine Age	hrs	Client Info		3348	2080	972
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	Not Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>3360	76	322	134
Chromium	ppm	ASTM D5185m	>35	<1	10	5
Nickel	ppm	ASTM D5185m	>8	<1	2	0
Titanium	ppm	ASTM D5185m	>15	<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>185	2	5	2
Lead	ppm	ASTM D5185m	>5	0	<1	0
Copper	ppm	ASTM D5185m	>80	45	<1	<1
Tin	ppm	ASTM D5185m	>8	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

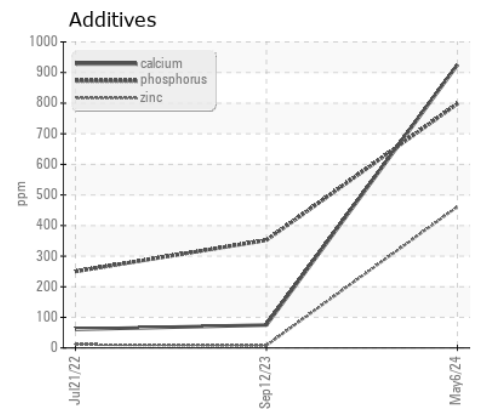
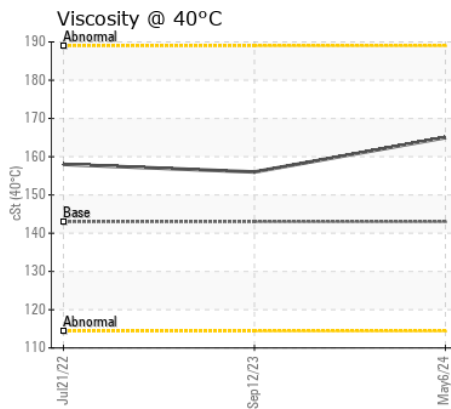
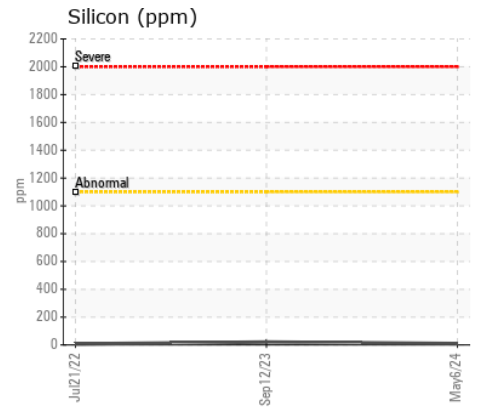
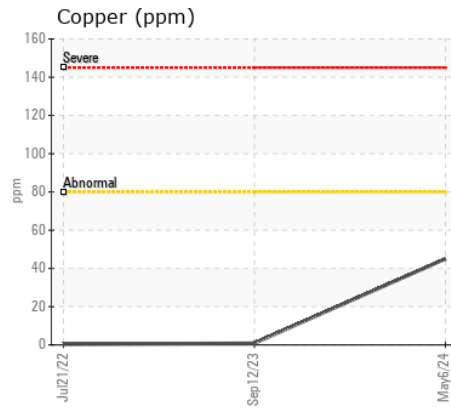
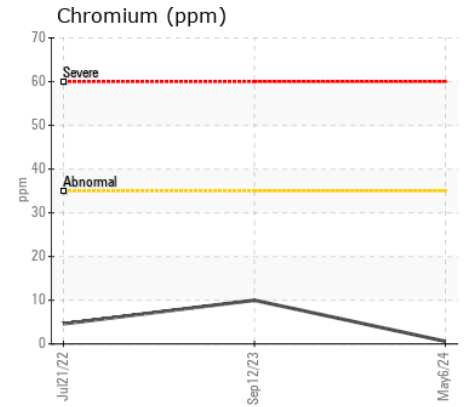
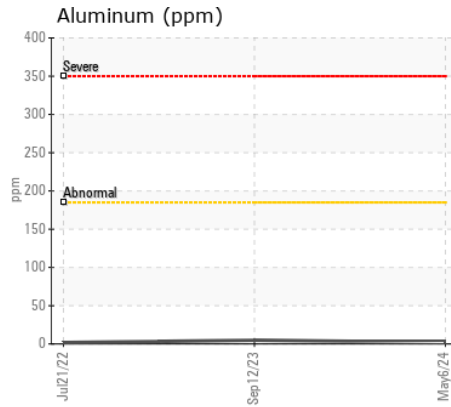
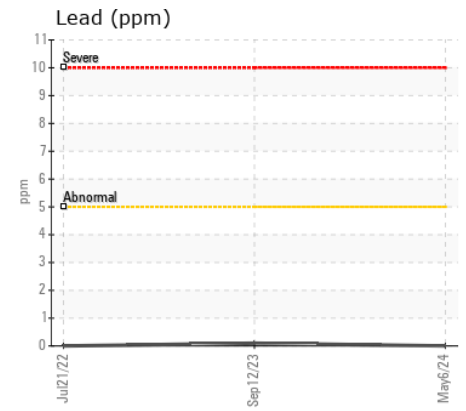
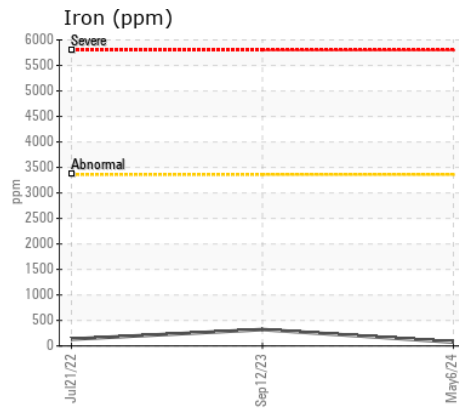
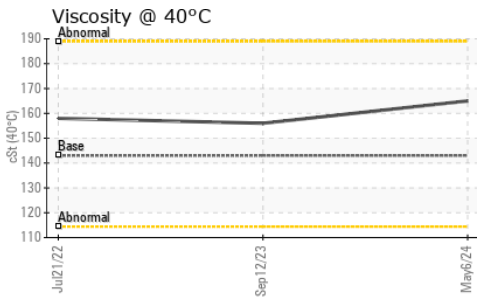
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>1100	10	21	8
Potassium	ppm	ASTM D5185m	>20	1	5	3
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>170	2	24	14
Boron	ppm	ASTM D5185m	400	24	0	0
Barium	ppm	ASTM D5185m	200	6	0	3
Molybdenum	ppm	ASTM D5185m	12	1	<1	<1
Manganese	ppm	ASTM D5185m		3	8	4
Magnesium	ppm	ASTM D5185m	12	17	11	5
Calcium	ppm	ASTM D5185m	150	925	75	61
Phosphorus	ppm	ASTM D5185m	1650	798	352	250
Zinc	ppm	ASTM D5185m	125	461	8	11
Sulfur	ppm	ASTM D5185m	22500	13515	21354	16064
Visc @ 40°C	cSt	ASTM D445	143	165	156	158



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP438291
Lab Number : 06212190
Unique Number : 11085054
Test Package : MOB 1

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

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 5000 INDUSTRIAL HWY
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 US 46406
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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)