



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[SPM716819]
 Machine Id
VOLVO EC160D 210090
 Component
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		VCP446754	VCP415463	VCP422726
Sample Date		Client Info		24 May 2024	28 Aug 2023	26 Apr 2023
Machine Age	hrs	Client Info		9689	8565	7910
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		Not Changed	Not Changed	Not Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	488	336	247
Chromium	ppm	ASTM D5185m	>10	4	2	2
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	3	4
Lead	ppm	ASTM D5185m	>50	<1	<1	0
Copper	ppm	ASTM D5185m	>50	15	12	5
Tin	ppm	ASTM D5185m	>10	<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

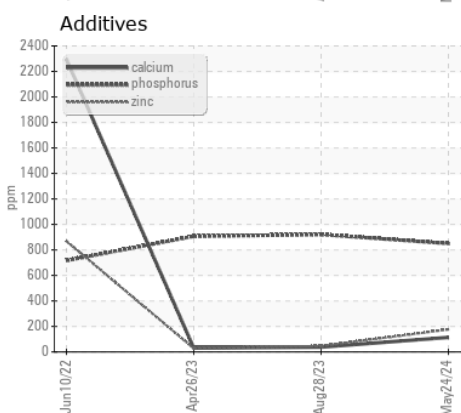
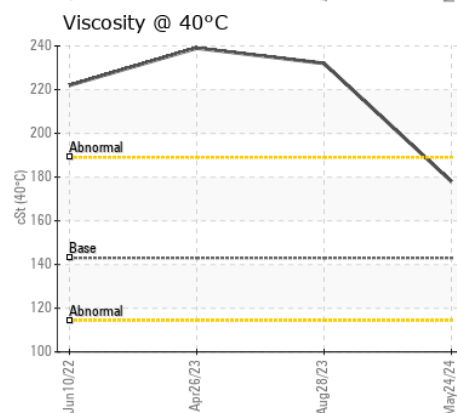
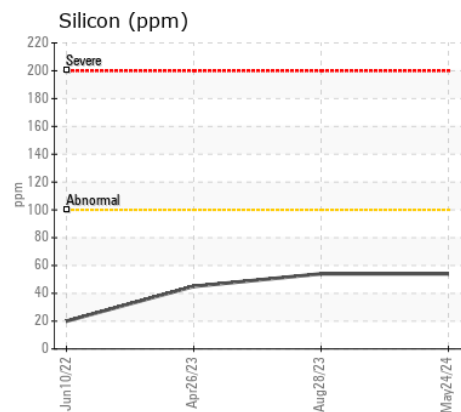
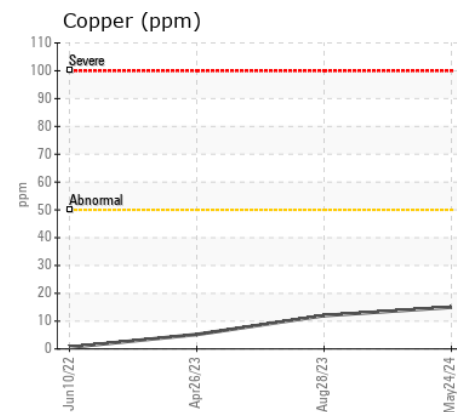
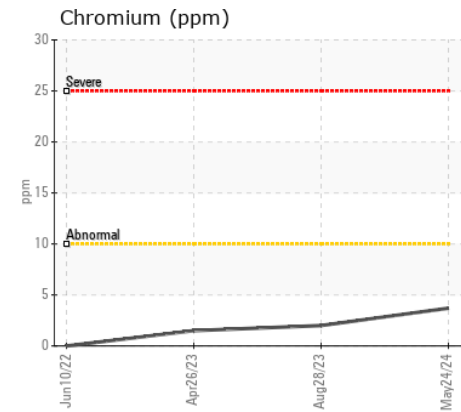
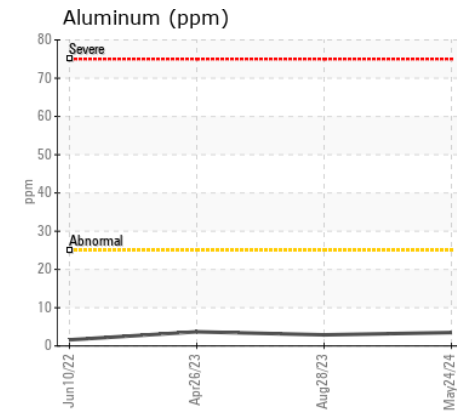
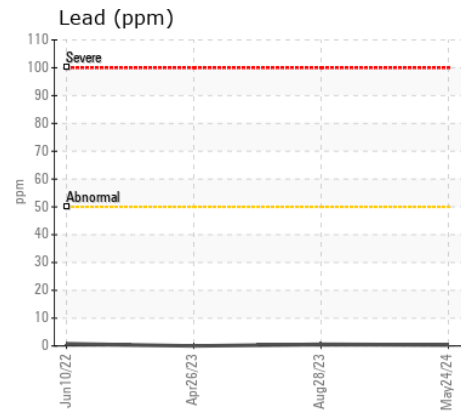
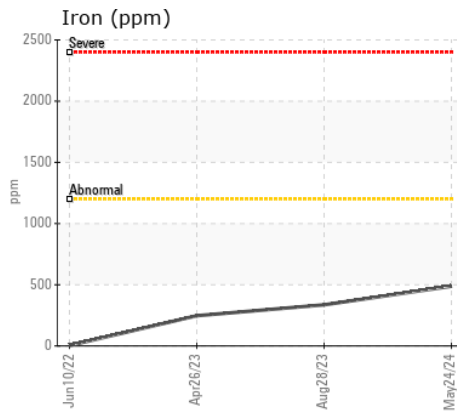
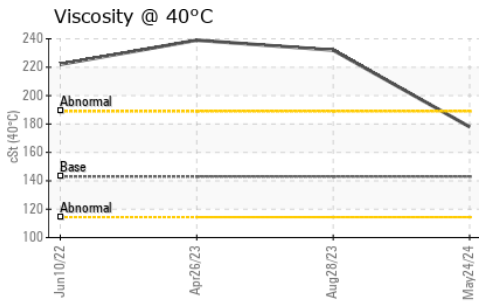
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	54	54	45
Potassium	ppm	ASTM D5185m	>20	17	6	4
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>0.25	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>170	1	0	1
Boron	ppm	ASTM D5185m	400	39	57	63
Barium	ppm	ASTM D5185m	200	1	2	0
Molybdenum	ppm	ASTM D5185m	12	5	<1	<1
Manganese	ppm	ASTM D5185m		4	3	2
Magnesium	ppm	ASTM D5185m	12	63	5	4
Calcium	ppm	ASTM D5185m	150	114	38	31
Phosphorus	ppm	ASTM D5185m	1650	850	921	907
Zinc	ppm	ASTM D5185m	125	176	46	28
Sulfur	ppm	ASTM D5185m	22500	14961	21957	23016
Visc @ 40°C	cSt	ASTM D445	143	178	232	239



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : VCP446754
 Lab Number : 06212193
 Unique Number : 11085057
 Test Package : MOB 1

Received : 17 Jun 2024
 Tested : 19 Jun 2024
 Diagnosed : 19 Jun 2024 - Wes Davis

CALUMET CITY AUTO WRECKERS
 630 E STATE ST
 CALUMET CITY, IL
 US 60409
 Contact: GARY

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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F: