



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[8000407265]

Machine Id

VOLVO EC140EL 314231

Component

Swing Drive

Fluid

VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP392015	VCP382487	VCP298228
Sample Date		Client Info		06 Jun 2024	03 Feb 2023	03 Aug 2021
Machine Age	hrs	Client Info		3119	2024	1013
Oil Age	hrs	Client Info		1000	1000	549
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1200	39	27	100
Chromium	ppm	ASTM D5185(m)	>10	<1	0	1
Nickel	ppm	ASTM D5185(m)	>10	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	0	<1
Lead	ppm	ASTM D5185(m)	>50	0	0	0
Copper	ppm	ASTM D5185(m)	>50	2	2	4
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

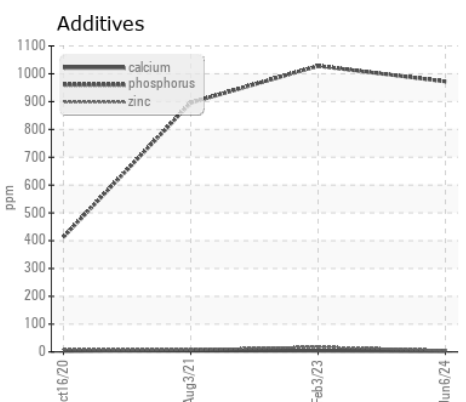
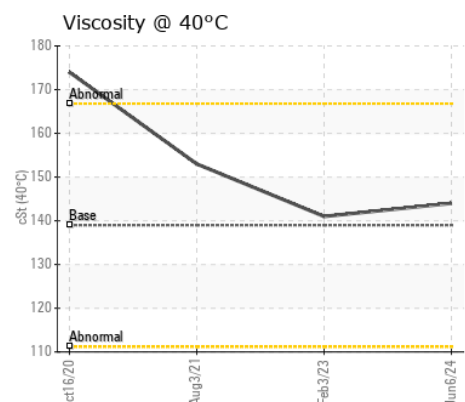
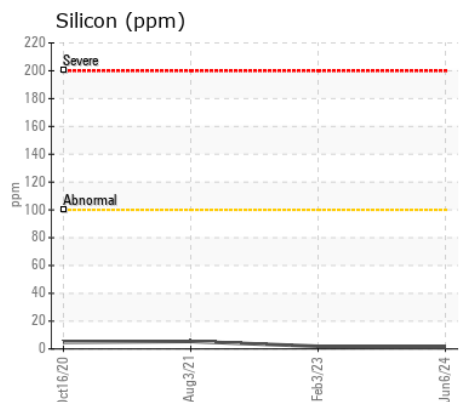
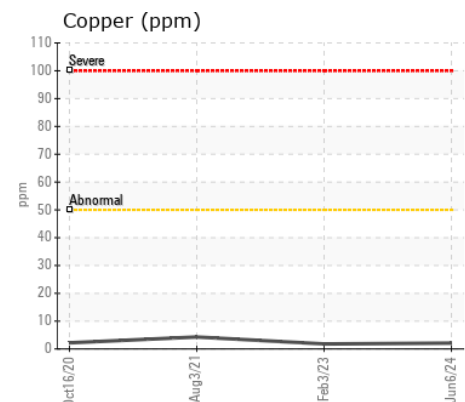
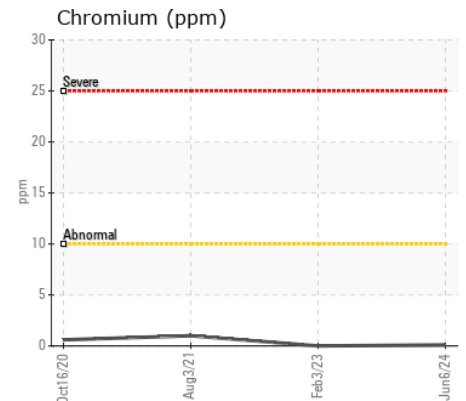
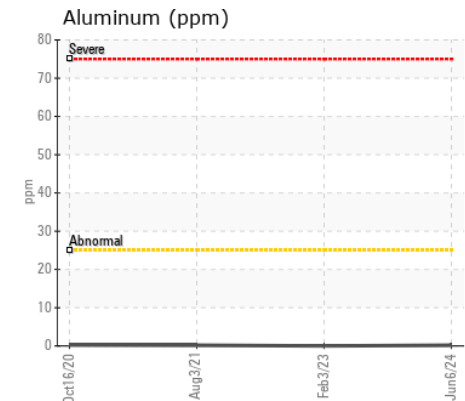
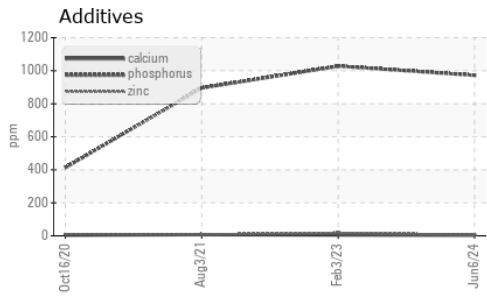
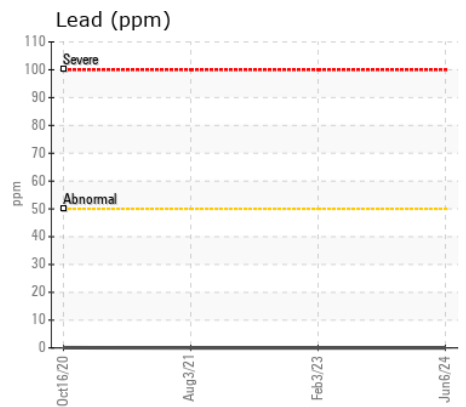
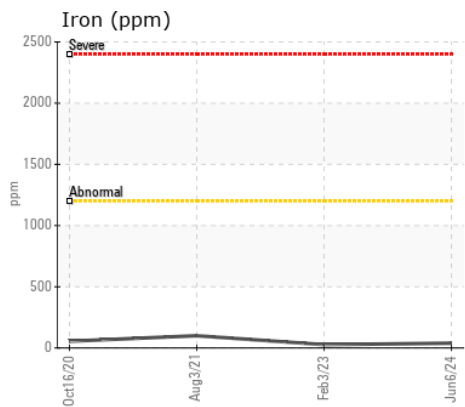
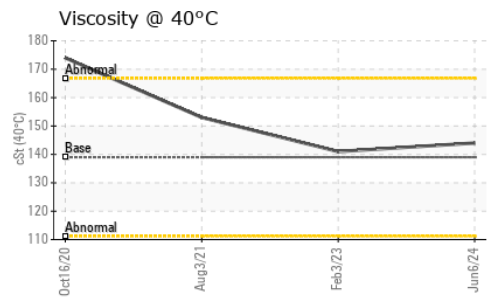
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>100	1	2	5
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>0.25	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	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*	>0.25	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Boron	ppm	ASTM D5185(m)	379	171	147	122
Barium	ppm	ASTM D5185(m)	0.0	<1	<1	3
Molybdenum	ppm	ASTM D5185(m)	0.8	0	0	0
Manganese	ppm	ASTM D5185(m)	0.0	<1	<1	1
Magnesium	ppm	ASTM D5185(m)	31	<1	0	<1
Calcium	ppm	ASTM D5185(m)	38	3	5	7
Phosphorus	ppm	ASTM D5185(m)	1077	972	1028	896
Zinc	ppm	ASTM D5185(m)	46	6	18	8
Sulfur	ppm	ASTM D5185(m)	23526	24802	25595	23063
Visc @ 40°C	cSt	ASTM D7279(m)	139	144	141	153



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP392015
Lab Number : 02641286
Unique Number : 5798825
Test Package : MOB 1
Received : 11 Jun 2024
Tested : 11 Jun 2024
Diagnosed : 11 Jun 2024 - Wes Davis

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.