



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION



Area
[46953]
Machine Id
VOLVO EC140E 314197
Component
Swing Drive
Fluid
VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP417767	VCP364717	---
Sample Date		Client Info		15 Feb 2024	24 Aug 2022	---
Machine Age	hrs	Client Info		2028	1259	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Not Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	169	334	---
Chromium	ppm	ASTM D5185m	>10	2	3	---
Nickel	ppm	ASTM D5185m	>10	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>25	<1	3	---
Lead	ppm	ASTM D5185m	>50	<1	<1	---
Copper	ppm	ASTM D5185m	>50	16	37	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

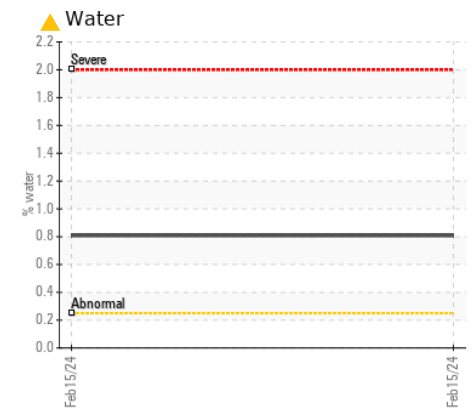
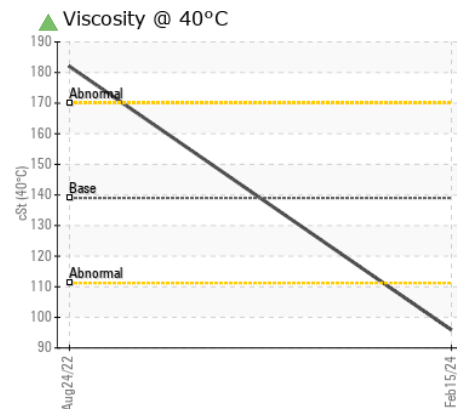
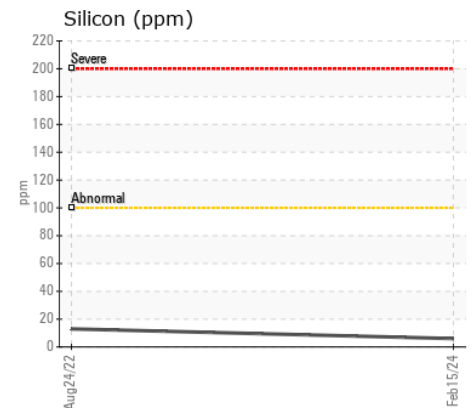
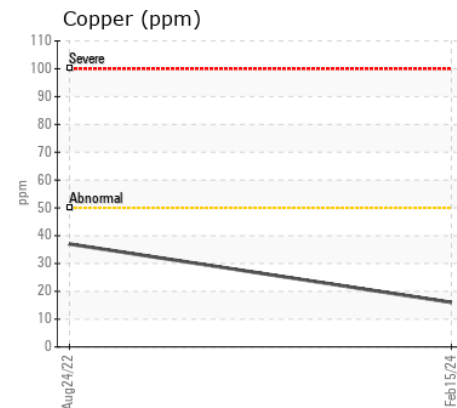
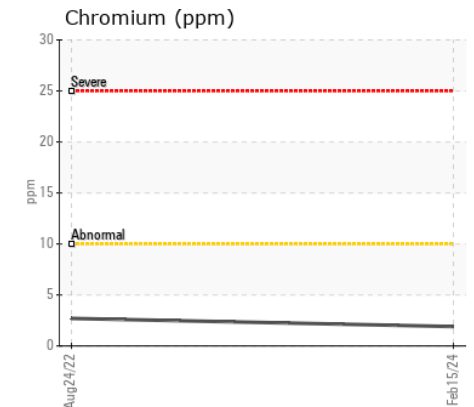
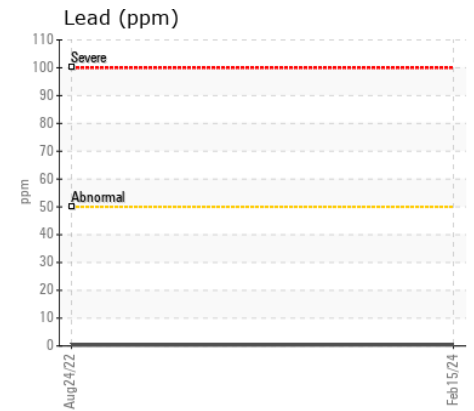
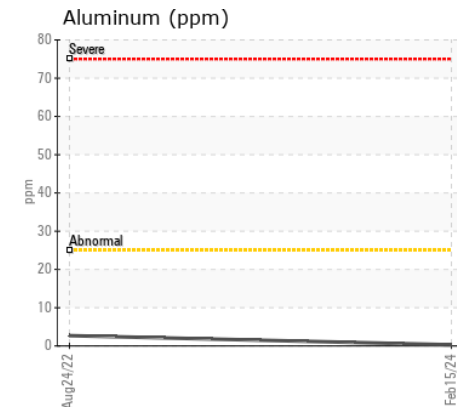
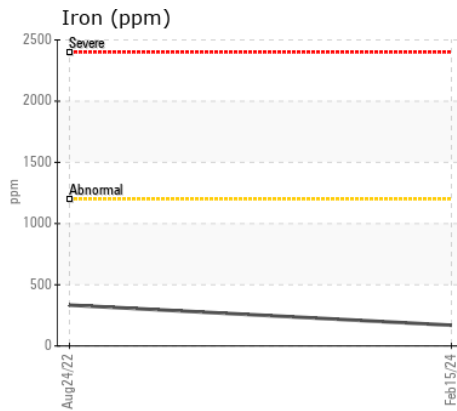
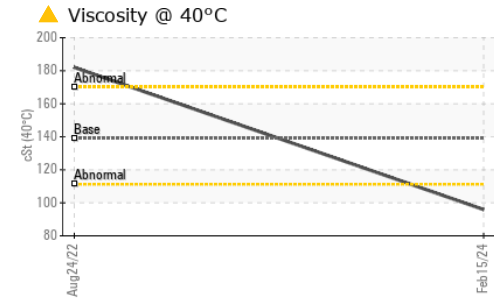
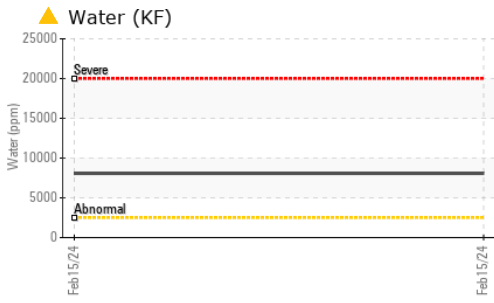
There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>100	6	13	---
Potassium	ppm	ASTM D5185m	>20	1	2	---
Water	%	ASTM D6304	>0.25	▲ 0.808	---	---
ppm Water	ppm	ASTM D6304	>2500	▲ 8080	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.25	▲ 0.2%	NEG	---

FLUID CONDITION

The oil viscosity is lower than normal.

Sodium	ppm	ASTM D5185m		0	0	---
Boron	ppm	ASTM D5185m	379	75	2	---
Barium	ppm	ASTM D5185m	0.0	6	7	---
Molybdenum	ppm	ASTM D5185m	0.8	2	1	---
Manganese	ppm	ASTM D5185m	0.0	2	6	---
Magnesium	ppm	ASTM D5185m	31	8	3	---
Calcium	ppm	ASTM D5185m	38	26	33	---
Phosphorus	ppm	ASTM D5185m	1077	615	429	---
Zinc	ppm	ASTM D5185m	46	92	49	---
Sulfur	ppm	ASTM D5185m	23526	19235	12790	---
Visc @ 40°C	cSt	ASTM D445	139	▲ 95.9	182	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP417767
Lab Number : 06099455
Unique Number : 10897685
Test Package : MOBCE (Additional Tests: KF)

Received : 23 Feb 2024
Tested : 26 Feb 2024
Diagnosed : 27 Feb 2024 - Don Baldrige

365 - ASCENDUM MACHINERY INC - SAVANNAH
 54 MEDLINE DR
 RICHMOND HILL, GA
 US 31324
 Contact: JESSE WILSON
 jesse.wilson@ascendummachinery.com

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)

T:
 F: (912)964-9515