



VOLVO

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area

[730276]

Machine Id

VOLVO ECR88D 212899

Component

Rear Left Final Drive

Fluid

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

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. 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		VCP453544	VCP341113	---
Sample Date		Client Info		18 Jun 2024	16 Jun 2022	---
Machine Age	hrs	Client Info		5977	3980	---
Oil Age	hrs	Client Info		2000	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Changed	Not Changed	---
Sample Status				SEVERE	ABNORMAL	---

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	▲ 516	404	---
Chromium	ppm	ASTM D5185m	>10	▲ 19	▲ 13	---
Nickel	ppm	ASTM D5185m	>10	1	0	---
Titanium	ppm	ASTM D5185m		2	1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	● 37	● 20	---
Lead	ppm	ASTM D5185m	>25	0	<1	---
Copper	ppm	ASTM D5185m	>50	2	1	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

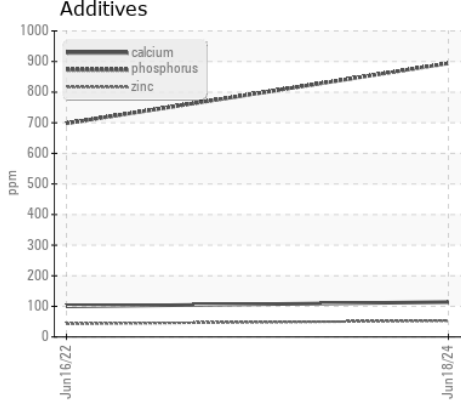
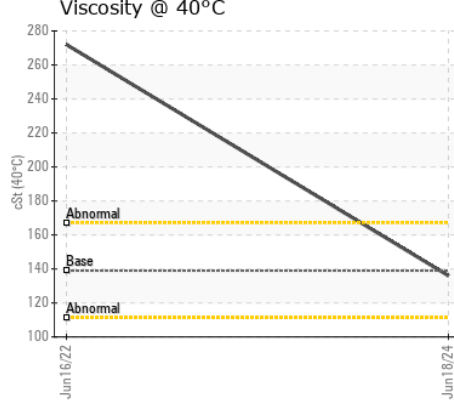
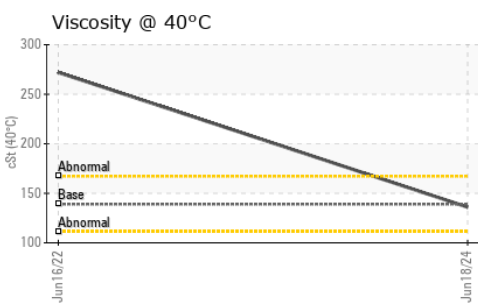
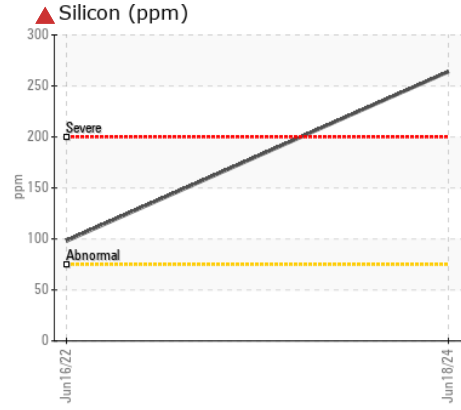
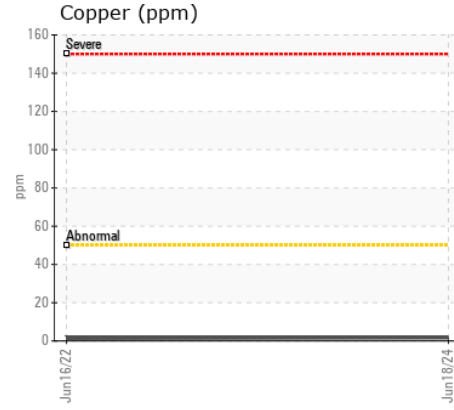
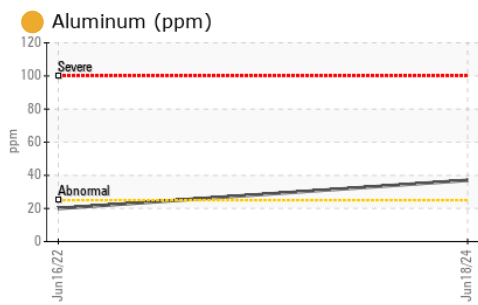
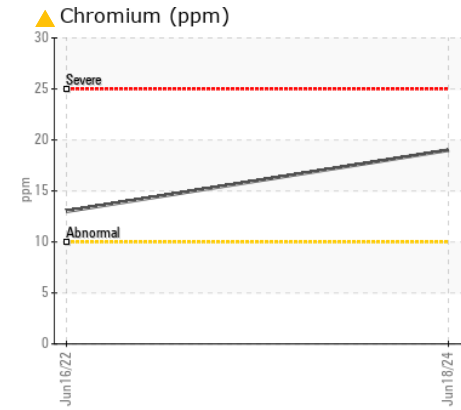
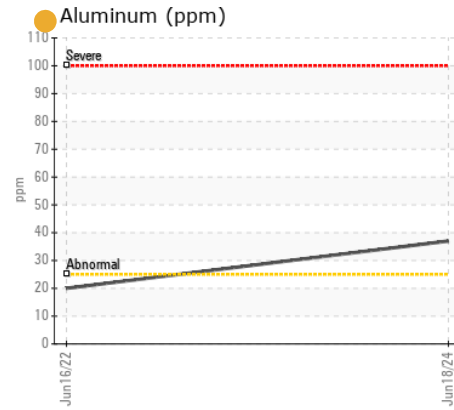
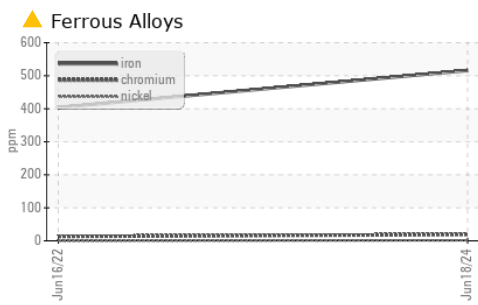
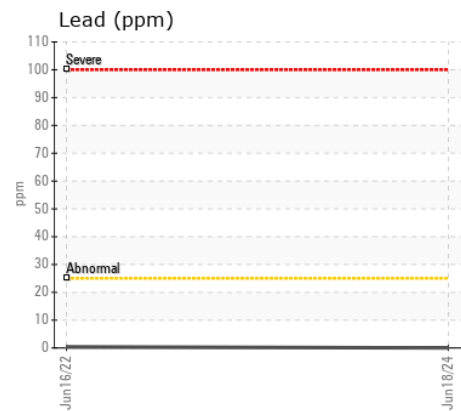
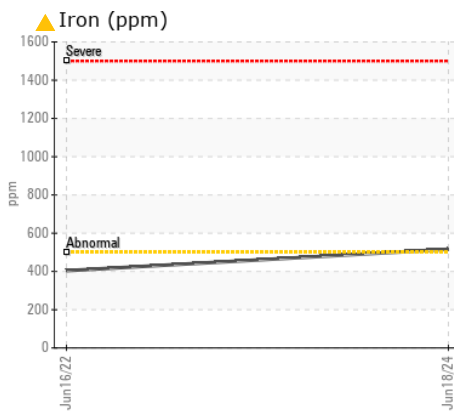
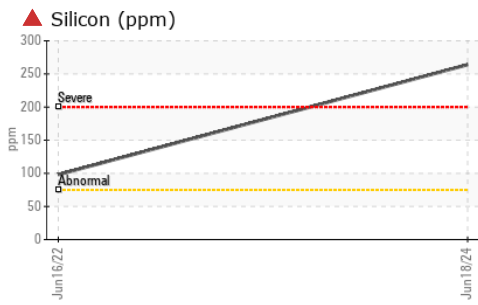
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 264	▲ 98	---
Potassium	ppm	ASTM D5185m	>20	16	8	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	LIGHT	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	>0.2	NEG	NEG	---

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		9	3	---
Boron	ppm	ASTM D5185m	379	30	80	---
Barium	ppm	ASTM D5185m	0.0	<1	0	---
Molybdenum	ppm	ASTM D5185m	0.8	2	1	---
Manganese	ppm	ASTM D5185m	0.0	6	5	---
Magnesium	ppm	ASTM D5185m	31	39	28	---
Calcium	ppm	ASTM D5185m	38	114	100	---
Phosphorus	ppm	ASTM D5185m	1077	894	698	---
Zinc	ppm	ASTM D5185m	46	53	43	---
Sulfur	ppm	ASTM D5185m	23526	28166	18231	---
Visc @ 40°C	cSt	ASTM D445	139	136	● 272	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP453544
Lab Number : 06217123
Unique Number : 11089987
Test Package : MOB 1

Received : 21 Jun 2024
Tested : 24 Jun 2024
Diagnosed : 24 Jun 2024 - Sean Felton

BLAZE CONSTRUCTION
 5640 ST JEAN ST
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 US 48213
 Contact: DAVE WARD
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 T: (248)632-2317
 F:

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)