



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area

[716824 SYNERGY]

Machine Id

VOLVO ECR235 314203

Component

Swing Drive

Fluid

VOLVO PREMIUM GEAR OIL 85W-140 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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP450719	VCP395987	VCP337036
Sample Date		Client Info		21 May 2024	24 Feb 2023	09 Jun 2022
Machine Age	hrs	Client Info		4253	3136	2375
Oil Age	hrs	Client Info		0	1000	1000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Not Changed	Not Changed
Sample Status				ABNORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	263	147	107
Chromium	ppm	ASTM D5185m	>10	3	1	1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	0	1
Aluminum	ppm	ASTM D5185m	>25	1	<1	<1
Lead	ppm	ASTM D5185m	>50	<1	0	0
Copper	ppm	ASTM D5185m	>50	11	4	4
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

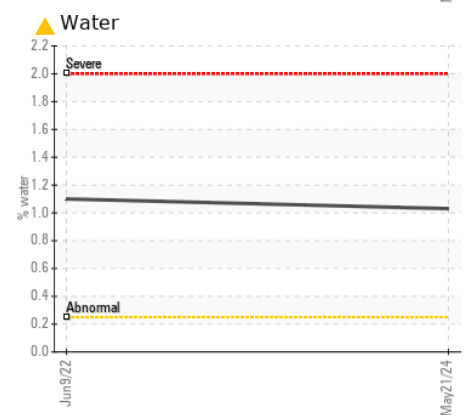
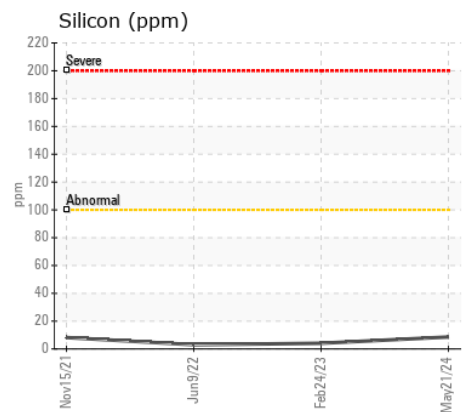
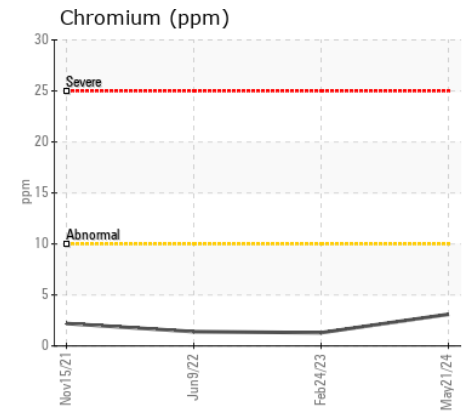
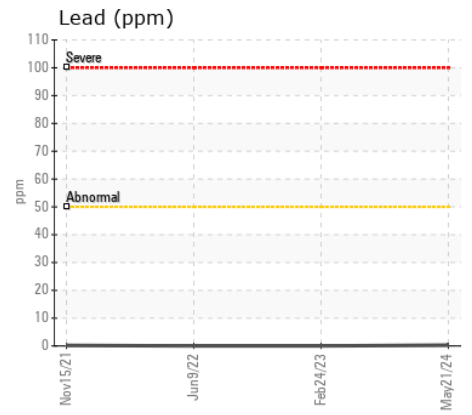
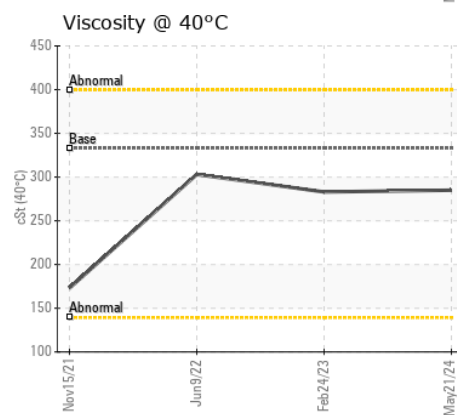
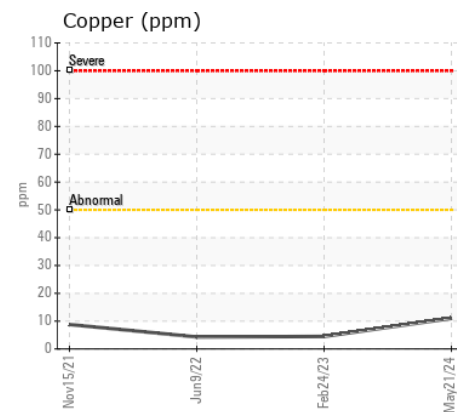
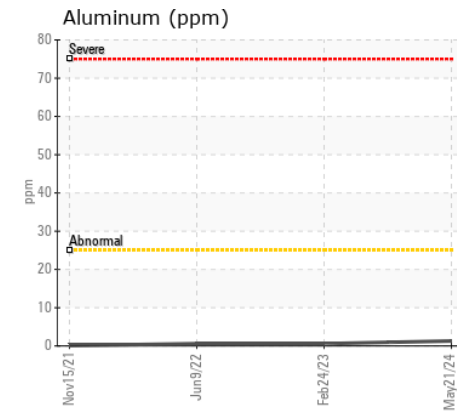
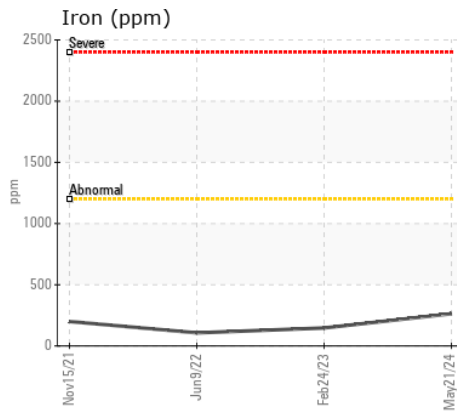
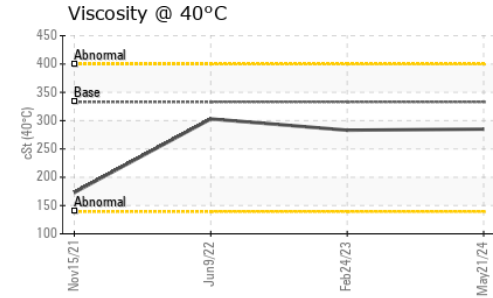
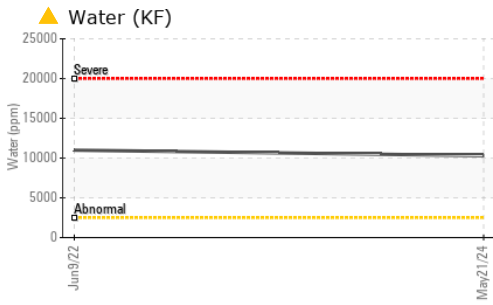
Appearance is milky. There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>100	9	4	3
Potassium	ppm	ASTM D5185m	>20	1	<1	0
Water	%	ASTM D6304	>0.25	▲ 1.03	---	▲ 1.10
ppm Water	ppm	ASTM D6304	>2500	▲ 10300	---	▲ 11000
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	● MILKY	NORML	● MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.25	▲ 0.2%	NEG	▲ 0.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	0	1
Boron	ppm	ASTM D5185m	111	127	86	97
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.9	6	5	2
Manganese	ppm	ASTM D5185m	0.0	3	2	2
Magnesium	ppm	ASTM D5185m	39	30	29	14
Calcium	ppm	ASTM D5185m	93	72	59	83
Phosphorus	ppm	ASTM D5185m	920	958	867	684
Zinc	ppm	ASTM D5185m	104	81	76	53
Sulfur	ppm	ASTM D5185m	20179	28374	25056	22032
Visc @ 40°C	cSt	ASTM D445	333	285	283	303



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP450719 **Received** : 28 May 2024
Lab Number : 06192541 **Tested** : 30 May 2024
Unique Number : 11049293 **Diagnosed** : 30 May 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: KF)

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233

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)