



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[W02008458]

Machine Id
VOLVO ECR355 310021

Component
Left Gearbox

Fluid
GEAR OIL SAE 85W140 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

The iron and chrome levels are severe. Gear wear is indicated.

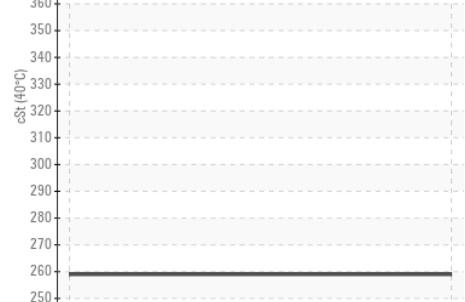
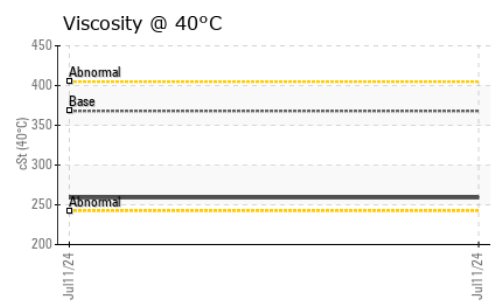
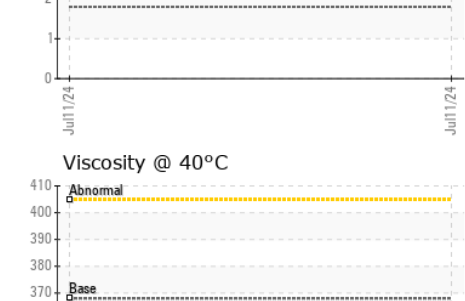
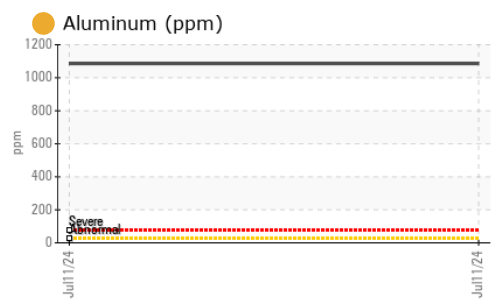
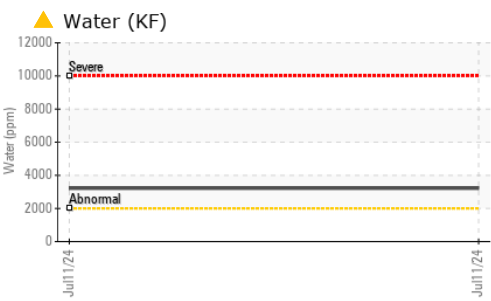
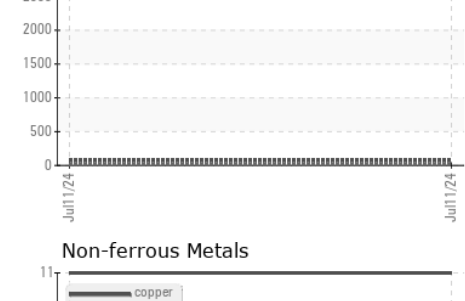
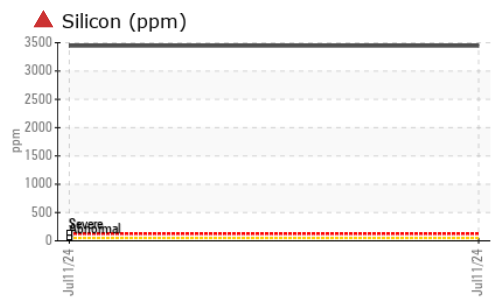
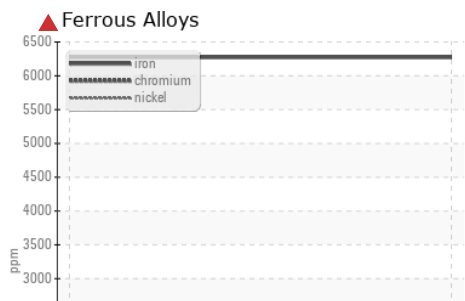
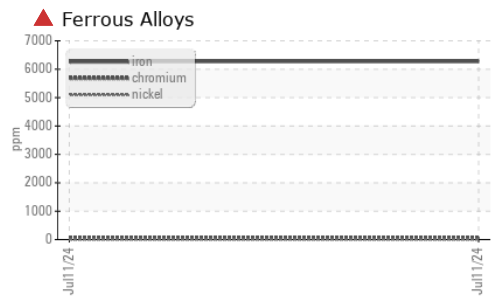
CONTAMINATION

There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0002414	---	---
Sample Date		Client Info		11 Jul 2024	---	---
Machine Age	hrs	Client Info		5994	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>200	▲ 6272	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 72	---	---
Nickel	ppm	ASTM D5185m	>10	5	---	---
Titanium	ppm	ASTM D5185m		81	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	● 1086	---	---
Lead	ppm	ASTM D5185m	>50	2	---	---
Copper	ppm	ASTM D5185m	>200	11	---	---
Tin	ppm	ASTM D5185m	>10	2	---	---
Vanadium	ppm	ASTM D5185m		3	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>50	▲ 3444	---	---
Potassium	ppm	ASTM D5185m	>20	297	---	---
Water	%	ASTM D6304	>0.2	▲ 0.322	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 3220	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	---	---
Sodium	ppm	ASTM D5185m		82	---	---
Boron	ppm	ASTM D5185m	400	22	---	---
Barium	ppm	ASTM D5185m	200	6	---	---
Molybdenum	ppm	ASTM D5185m	12	8	---	---
Manganese	ppm	ASTM D5185m		57	---	---
Magnesium	ppm	ASTM D5185m	12	172	---	---
Calcium	ppm	ASTM D5185m	150	2233	---	---
Phosphorus	ppm	ASTM D5185m	1650	912	---	---
Zinc	ppm	ASTM D5185m	125	956	---	---
Sulfur	ppm	ASTM D5185m	22500	24427	---	---
Visc @ 40°C	cSt	ASTM D445	368	259	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0002414 **Received** : 15 Jul 2024
Lab Number : 06237203 **Tested** : 17 Jul 2024
Unique Number : 11126037 **Diagnosed** : 17 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF)

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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)