

PROBLEM SUMMARY

Sample Rating Trend

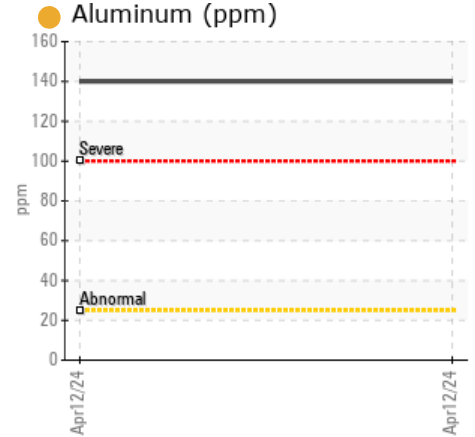
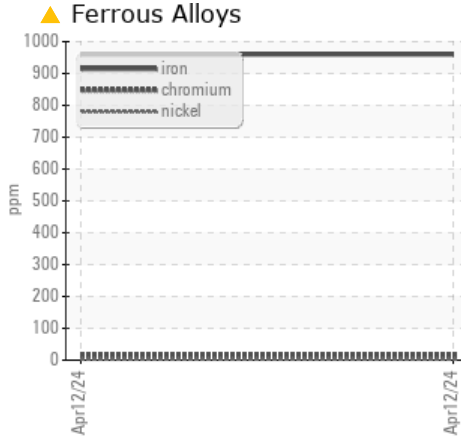
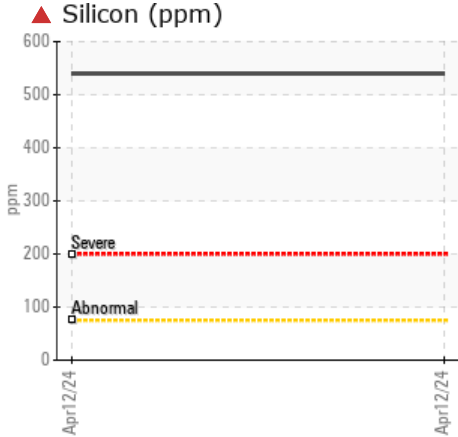


DIRT



Area
[W02008168]
 Machine Id
VOLVO EC350 314516
 Component
Right Final Drive
 Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (2 GAL)

COMPONENT CONDITION SUMMARY



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. (Customer Sample Comment: W02008168)

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>500	▲ 960	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 15	---	---
Titanium	ppm	ASTM D5185m		▲ 15	---	---
Silicon	ppm	ASTM D5185m	>75	▲ 540	---	---

Customer Id: VOLVO0002
 Sample No.: ML0001135
 Lab Number: 06150768
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area
[W02008168]
 Machine Id
VOLVO EC350 314516
 Component
Right Final Drive
 Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (2 GAL)

DIAGNOSIS

▲ 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. (Customer Sample Comment: W02008168)

▲ Wear
 Gear wear is indicated.

▲ Contamination
 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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		ML0001135	---	---
Sample Date	Client Info		12 Apr 2024	---	---
Machine Age	hrs	Client Info	1942	---	---
Oil Age	hrs	Client Info	500	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	▲ 960	---
Chromium	ppm	ASTM D5185m	>10	▲ 15	---
Nickel	ppm	ASTM D5185m	>10	2	---
Titanium	ppm	ASTM D5185m		▲ 15	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>25	● 140	---
Lead	ppm	ASTM D5185m	>25	<1	---
Copper	ppm	ASTM D5185m	>50	2	---
Tin	ppm	ASTM D5185m	>10	0	---
Vanadium	ppm	ASTM D5185m		<1	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	111	122	---
Barium	ppm	ASTM D5185m	0.0	3	---
Molybdenum	ppm	ASTM D5185m	0.9	3	---
Manganese	ppm	ASTM D5185m	0.0	9	---
Magnesium	ppm	ASTM D5185m	39	15	---
Calcium	ppm	ASTM D5185m	93	146	---
Phosphorus	ppm	ASTM D5185m	920	855	---
Zinc	ppm	ASTM D5185m	104	59	---
Sulfur	ppm	ASTM D5185m	20179	44561	---

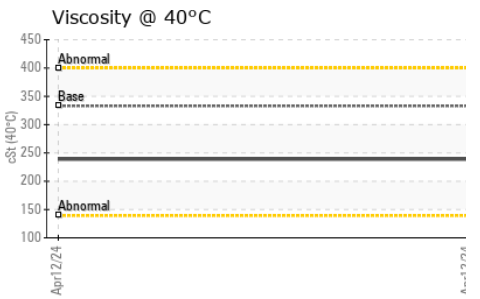
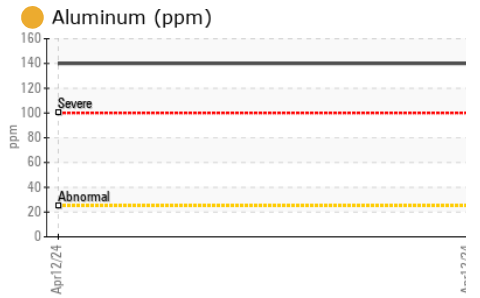
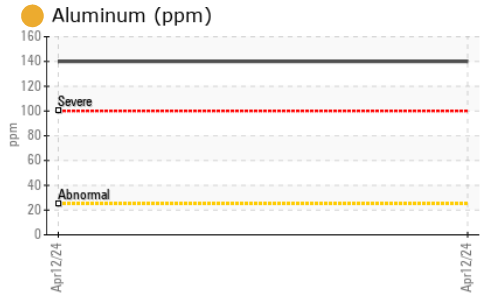
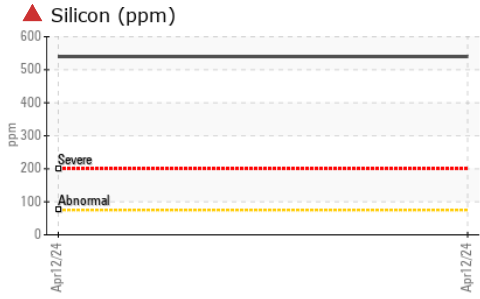
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ 540	---
Sodium	ppm	ASTM D5185m		3	---
Potassium	ppm	ASTM D5185m	>20	22	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
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	NEG	---
Free Water	scalar	*Visual		NEG	---

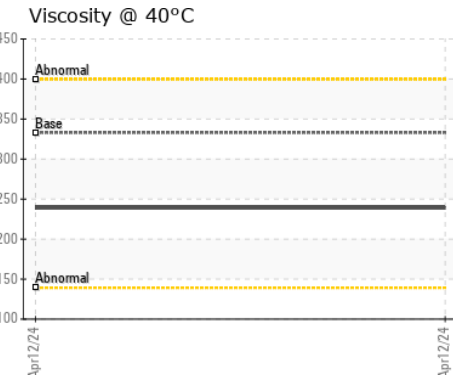
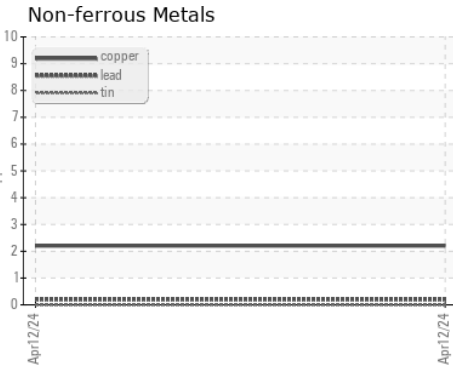
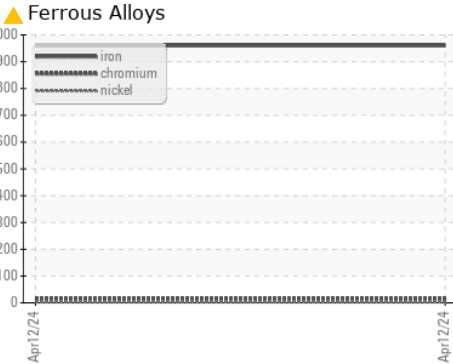
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 333	239	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001135 **Received** : 16 Apr 2024
Lab Number : 06150768 **Tested** : 17 Apr 2024
Unique Number : 10980846 **Diagnosed** : 18 Apr 2024 - Don Baldrige
Test Package : CONST

McCLUNG-LOGAN EQUIPMENT CO - MANASSAS
 8450 QUARRY ROAD
 MANASSAS, VA
 US 20110
 Contact: DARRELL ANDES
 dandes@mcclung-logan.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)