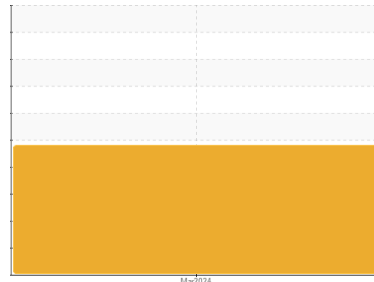


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
VOLVO 315217

Component
Right Final Drive

Fluid
VOLVO SUPER GEAR OIL 75W-80-GO102 (--- 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. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

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

Fluid Condition

The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	ML0000610	---	---
Sample Date	Client Info	29 Mar 2024	---	---
Machine Age	hrs Client Info	495	---	---
Oil Age	hrs Client Info	495	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

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	537	---	---
Chromium	ppm ASTM D5185m >10	14	---	---
Nickel	ppm ASTM D5185m >10	1	---	---
Titanium	ppm ASTM D5185m	3	---	---
Silver	ppm ASTM D5185m	0	---	---
Aluminum	ppm ASTM D5185m >25	23	---	---
Lead	ppm ASTM D5185m >25	0	---	---
Copper	ppm ASTM D5185m >50	2	---	---
Tin	ppm ASTM D5185m >10	27	---	---
Vanadium	ppm ASTM D5185m	<1	---	---
Cadmium	ppm ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0	---	---
Barium	ppm ASTM D5185m	0	---	---
Molybdenum	ppm ASTM D5185m	<1	---	---
Manganese	ppm ASTM D5185m	10	---	---
Magnesium	ppm ASTM D5185m	3	---	---
Calcium	ppm ASTM D5185m	23	---	---
Phosphorus	ppm ASTM D5185m	246	---	---
Zinc	ppm ASTM D5185m	27	---	---
Sulfur	ppm ASTM D5185m	16038	---	---

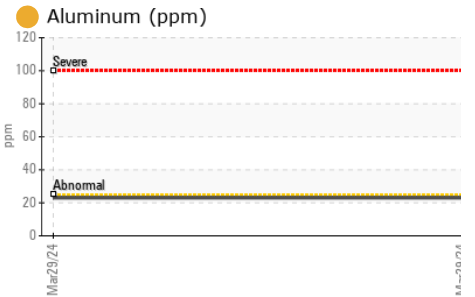
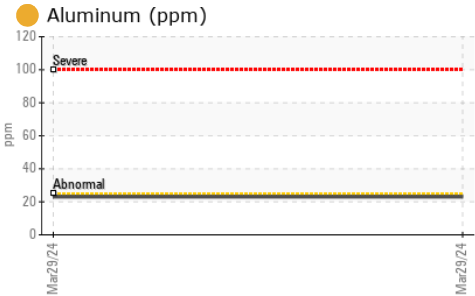
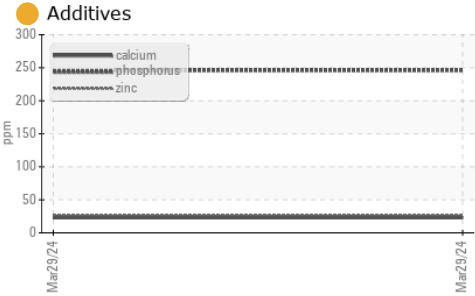
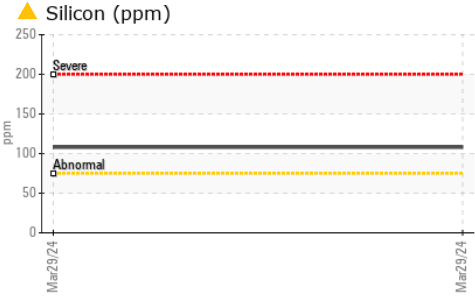
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >75	108	---	---
Sodium	ppm ASTM D5185m	9	---	---
Potassium	ppm ASTM D5185m >20	7	---	---

VISUAL

method	limit/base	current	history1	history2
White Metal	scalar *Visual NONE	MODER	---	---
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	---	---

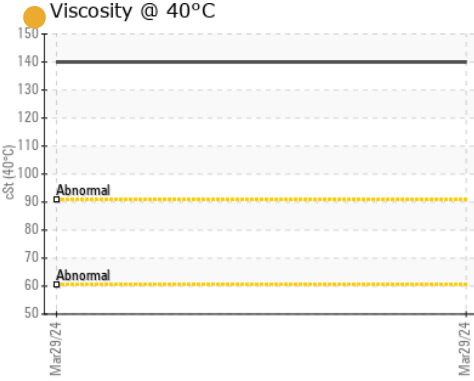
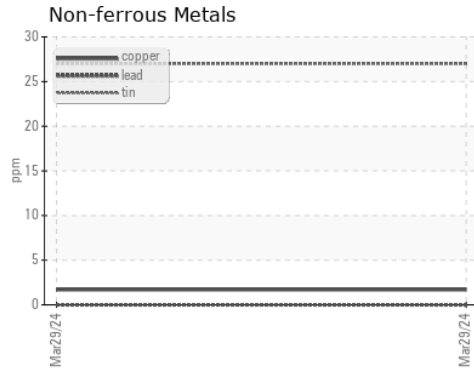
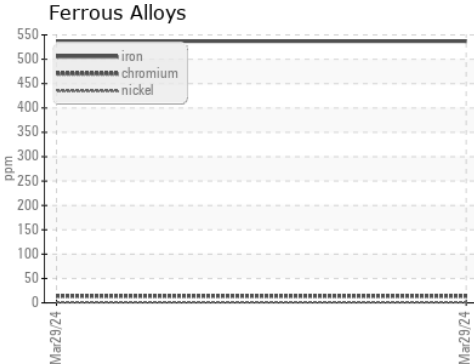
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	● 140	---	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0000610
Lab Number : 06138182
Unique Number : 10962990
Test Package : CONST

Received : 03 Apr 2024
Tested : 04 Apr 2024
Diagnosed : 06 Apr 2024 - Don Baldrige

McCLUNG-LOGAN EQUIPMENT CO - RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
 Contact: Alex Anderson
 aanderson@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)

F: (804)266-1611