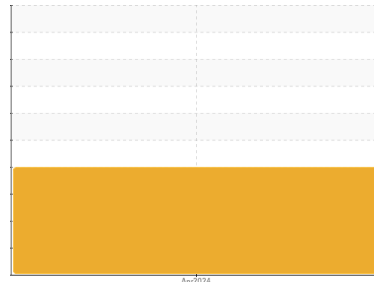


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
VOLVO ECR145 311293
 Component
Right Final Drive
 Fluid
GEAR OIL SAE 85W140 (--- 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

Gear wear is indicated. All other component wear rates are normal.

Contamination

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

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		ML0000451	---	---
Sample Date	Client Info		08 Apr 2024	---	---
Machine Age	hrs	Client Info	2913	---	---
Oil Age	hrs	Client Info	500	---	---
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	▲ 1204	---
Chromium	ppm	ASTM D5185m	>10	▲ 15	---
Nickel	ppm	ASTM D5185m	>10	4	---
Titanium	ppm	ASTM D5185m		2	---
Silver	ppm	ASTM D5185m		<1	---
Aluminum	ppm	ASTM D5185m	>25	● 13	---
Lead	ppm	ASTM D5185m	>25	0	---
Copper	ppm	ASTM D5185m	>50	5	---
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	400	2	---
Barium	ppm	ASTM D5185m	200	4	---
Molybdenum	ppm	ASTM D5185m	12	<1	---
Manganese	ppm	ASTM D5185m		13	---
Magnesium	ppm	ASTM D5185m	12	5	---
Calcium	ppm	ASTM D5185m	150	26	---
Phosphorus	ppm	ASTM D5185m	1650	183	---
Zinc	ppm	ASTM D5185m	125	42	---
Sulfur	ppm	ASTM D5185m	22500	28993	---

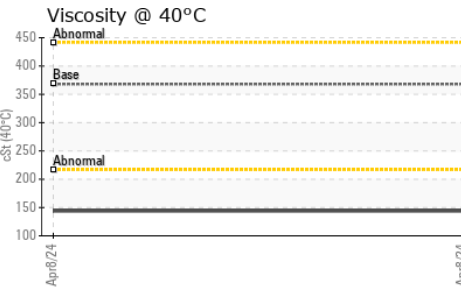
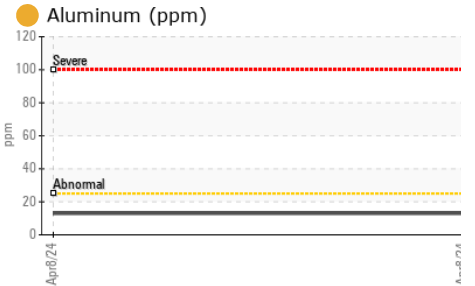
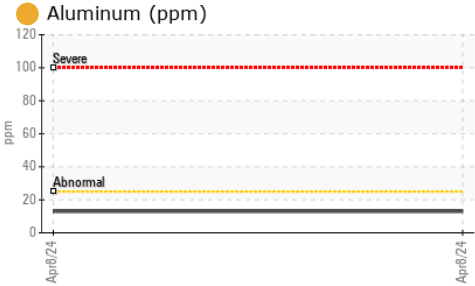
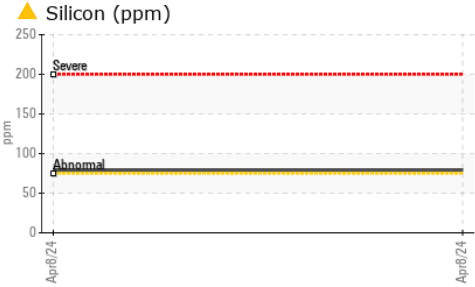
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ 79	---
Sodium	ppm	ASTM D5185m		10	---
Potassium	ppm	ASTM D5185m	>20	4	---

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	---

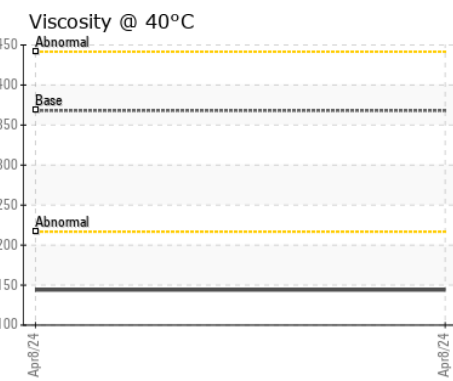
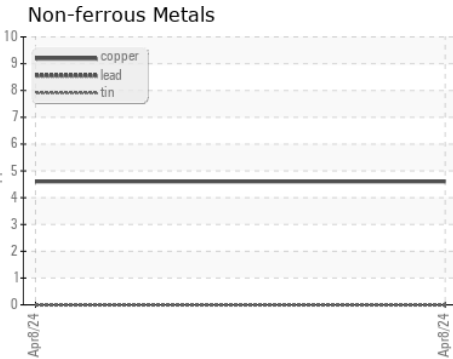
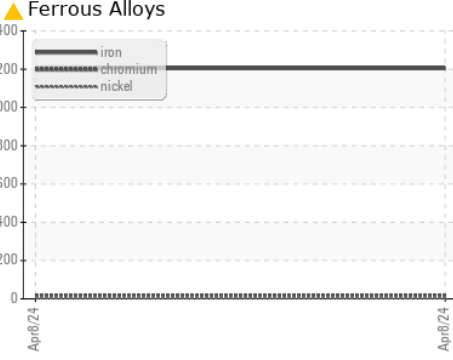
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	368	144	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0000451
Lab Number : 06150761
Unique Number : 10980839
Test Package : CONST

Received : 16 Apr 2024
Tested : 17 Apr 2024
Diagnosed : 18 Apr 2024 - Don Baldrige

McCLUNG-LOGAN EQUIPMENT CO - WINCHESTER
 160 KENTMERE COURT
 WINCHESTER, VA
 US 22603
 Contact: JENNIFER MATIAS
 jmatias@mcclung-logan.com
 T: (540)722-3700
 F: (540)722-4441

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)