



OIL ANALYSIS REPORT

Sample Rating Trend

CONTAMINANT



Machine Id
VOLVO G940B FWFNGRADER
 Component
Left Tandem
 Fluid
VOLVO WB 101 (--- GAL)



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

The sample contained a visible layer of foreign fluid contaminant, the origin and/or type of fluid is unknown.

Fluid Condition

The oil viscosity is higher than typical. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0659945	---	---
Sample Date	Client Info	11 Oct 2023	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	3500	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>1000	252	---	---
Chromium	ppm	ASTM D5185(m)	>10	<1	---	---
Nickel	ppm	ASTM D5185(m)	>5	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		<1	---	---
Aluminum	ppm	ASTM D5185(m)	>20	2	---	---
Lead	ppm	ASTM D5185(m)	>50	<1	---	---
Copper	ppm	ASTM D5185(m)	>50	<1	---	---
Tin	ppm	ASTM D5185(m)	>5	0	---	---
Antimony	ppm	ASTM D5185(m)	>5	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
Beryllium	ppm	ASTM D5185(m)		0	---	---
Cadmium	ppm	ASTM D5185(m)		0	---	---

ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185(m)	100	28	---	---
Barium	ppm	ASTM D5185(m)	0	<1	---	---
Molybdenum	ppm	ASTM D5185(m)	0	28	---	---
Manganese	ppm	ASTM D5185(m)		2	---	---
Magnesium	ppm	ASTM D5185(m)	0	12	---	---
Calcium	ppm	ASTM D5185(m)	3800	3117	---	---
Phosphorus	ppm	ASTM D5185(m)	1200	1018	---	---
Zinc	ppm	ASTM D5185(m)	1500	1400	---	---
Sulfur	ppm	ASTM D5185(m)	6500	4609	---	---
Lithium	ppm	ASTM D5185(m)		2	---	---

CONTAMINANTS

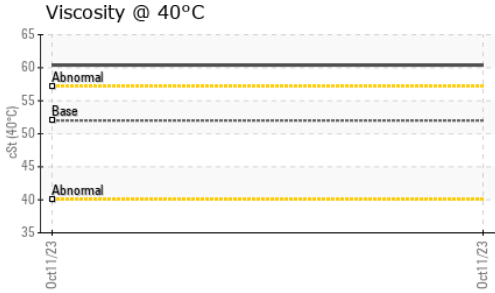
method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>50	15	---	---
Sodium	ppm	ASTM D5185(m)		127	---	---
Potassium	ppm	ASTM D5185(m)	>20	1	---	---

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	VLITE	---	---
Appearance	scalar	Visual*	NORML	LAYRD	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---



OIL ANALYSIS REPORT

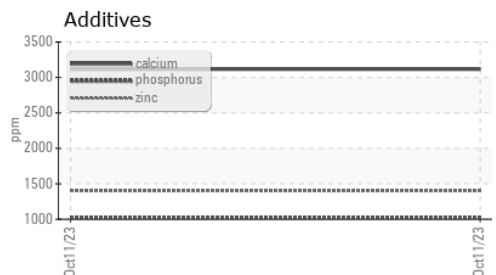
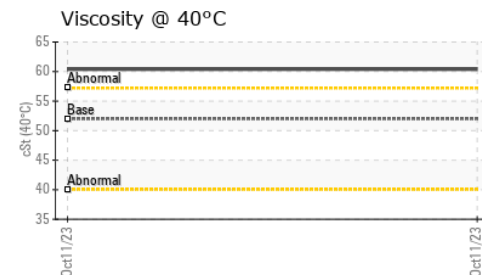
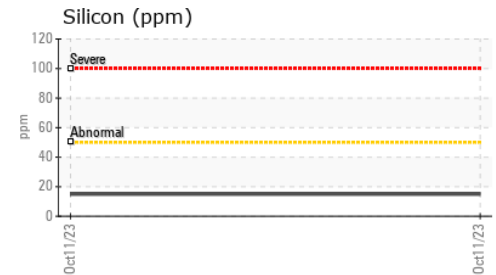
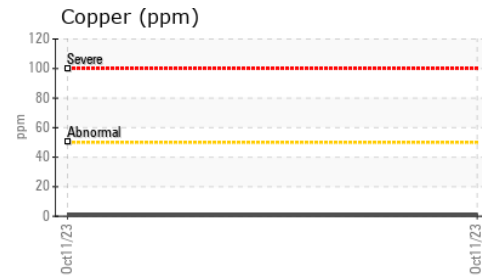
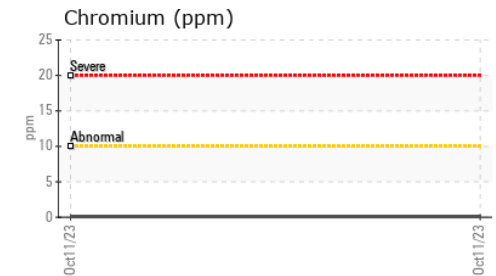
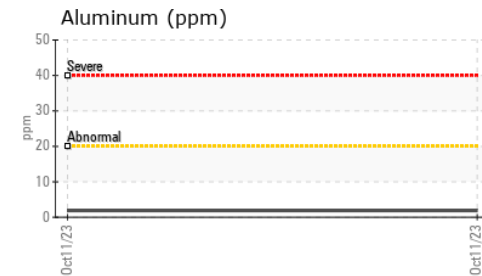
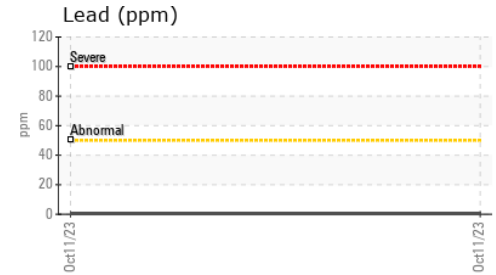
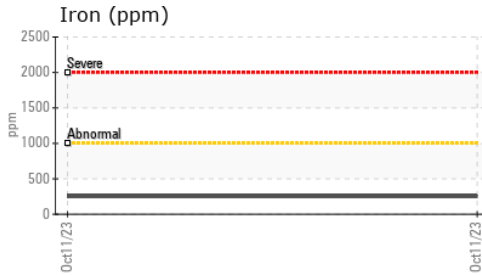


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	52.0	60.4	---	---

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

GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0659945 **Received** : 12 Oct 2023
Lab Number : **02588715** **Diagnosed** : 16 Oct 2023
Unique Number : 5657781 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: CENTRIFUGE(WARD))

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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