



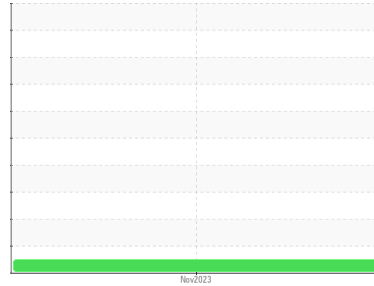
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
VOLVO EC220E 314315
 Component
Left Travel
 Fluid
GEAR OIL SAE 80W90 (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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		WC0849292	---	---
Sample Date	Client Info		15 Nov 2023	---	---
Machine Age	hrs	Client Info	4030	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.25	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >1200	290	---	---
Chromium	ppm	ASTM D5185(m) >20	2	---	---
Nickel	ppm	ASTM D5185(m) >5	3	---	---
Titanium	ppm	ASTM D5185(m)	4	---	---
Silver	ppm	ASTM D5185(m)	<1	---	---
Aluminum	ppm	ASTM D5185(m) >100	26	---	---
Lead	ppm	ASTM D5185(m) >50	0	---	---
Copper	ppm	ASTM D5185(m) >50	<1	---	---
Tin	ppm	ASTM D5185(m) >5	0	---	---
Antimony	ppm	ASTM D5185(m) >5	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

ADDITIVES

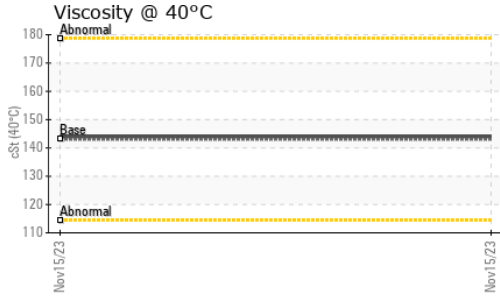
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 400	129	---	---
Barium	ppm	ASTM D5185(m) 200	<1	---	---
Molybdenum	ppm	ASTM D5185(m) 12	0	---	---
Manganese	ppm	ASTM D5185(m)	4	---	---
Magnesium	ppm	ASTM D5185(m) 12	10	---	---
Calcium	ppm	ASTM D5185(m) 150	32	---	---
Phosphorus	ppm	ASTM D5185(m) 1650	1040	---	---
Zinc	ppm	ASTM D5185(m) 125	6	---	---
Sulfur	ppm	ASTM D5185(m) 22500	26676	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >100	78	---	---
Sodium	ppm	ASTM D5185(m) >170	3	---	---
Potassium	ppm	ASTM D5185(m) >20	10	---	---



OIL ANALYSIS REPORT



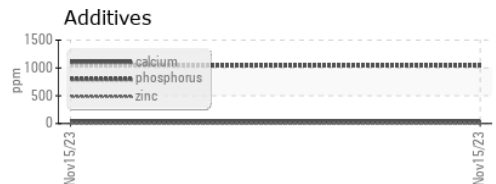
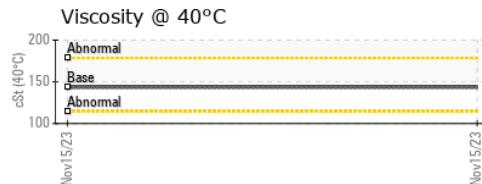
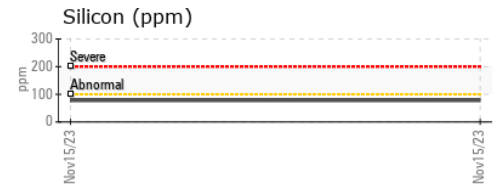
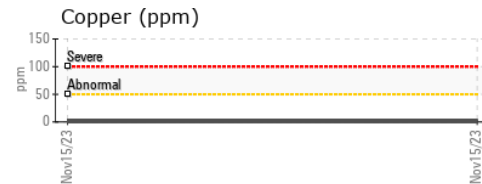
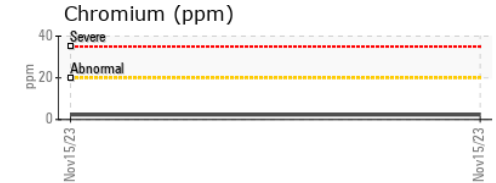
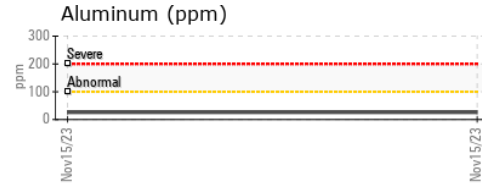
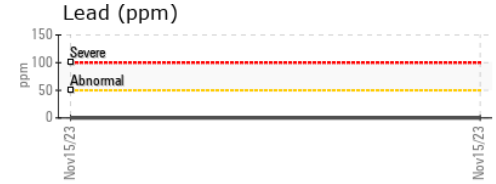
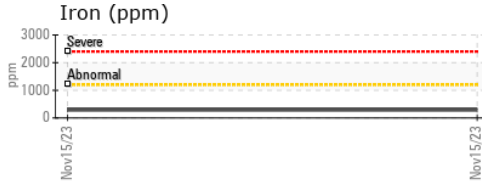
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.25	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	143	144	---

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. : WC0849292 **Received** : 12 Dec 2023
Lab Number : **02602663** **Diagnosed** : 12 Dec 2023
Unique Number : 5695748 **Diagnostician** : Wes Davis
Test Package : MOB 1

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 MONCTON, NB
 CA E1E 1E1
 Contact: Greg Ward
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 T: (506)857-8425
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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.