



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[8000389977]
Machine Id
VOLVO EC220EL 315112
Component
Bogie/Center Right Final Drive
Fluid
VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP393155	---	---
Sample Date		Client Info		04 Jan 2024	---	---
Machine Age	hrs	Client Info		654	---	---
Oil Age	hrs	Client Info		654	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184*		526	---	---
Iron	ppm	ASTM D5185(m)	>500	663	---	---
Chromium	ppm	ASTM D5185(m)	>10	8	---	---
Nickel	ppm	ASTM D5185(m)	>10	3	---	---
Titanium	ppm	ASTM D5185(m)		6	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	61	---	---
Lead	ppm	ASTM D5185(m)	>25	0	---	---
Copper	ppm	ASTM D5185(m)	>50	<1	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

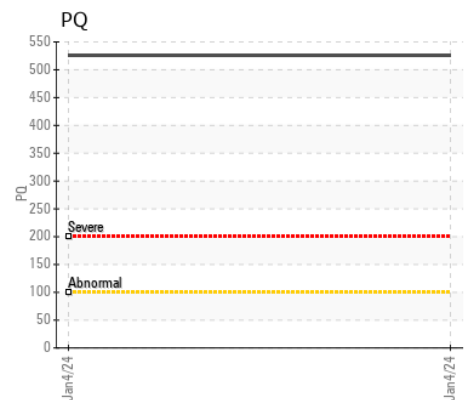
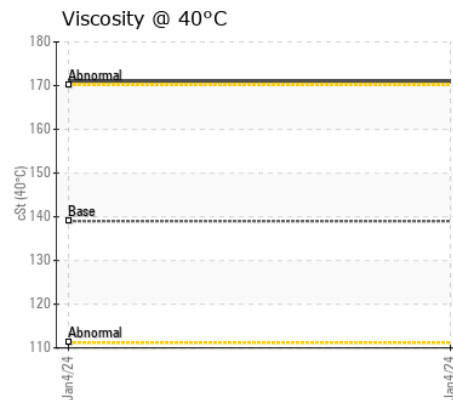
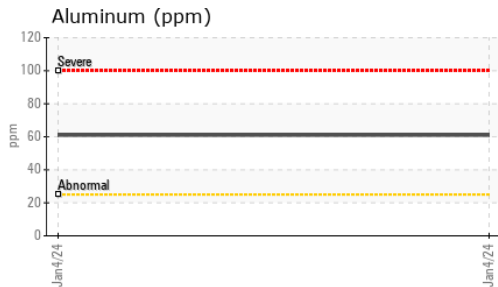
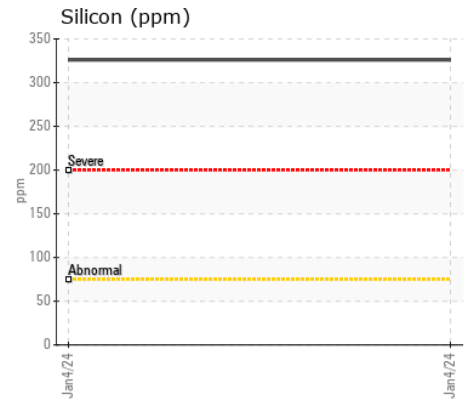
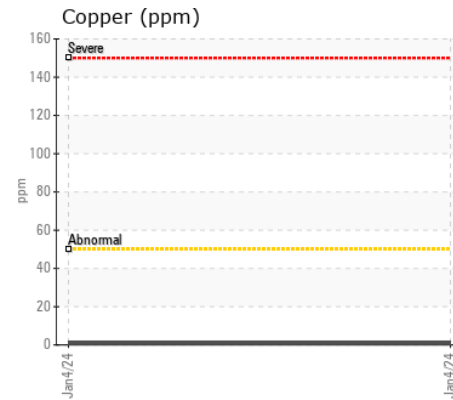
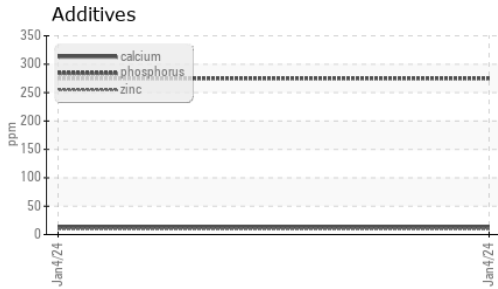
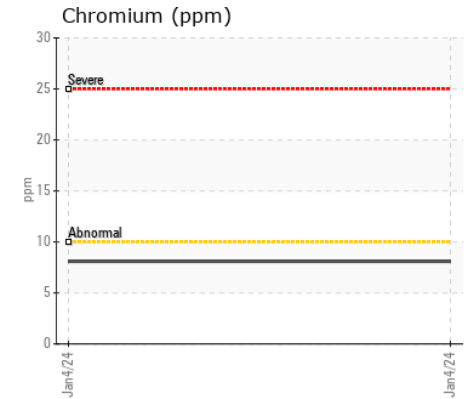
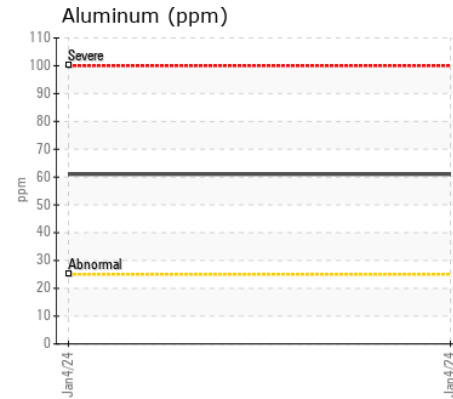
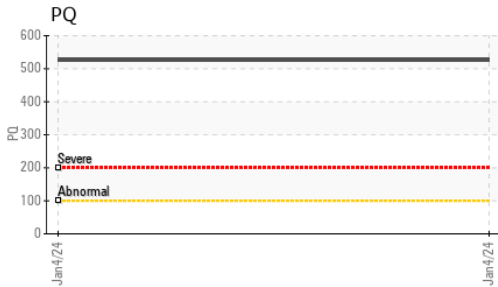
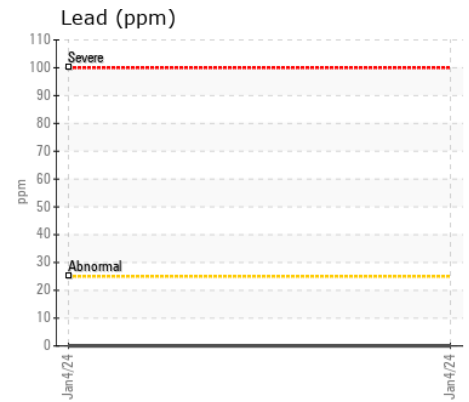
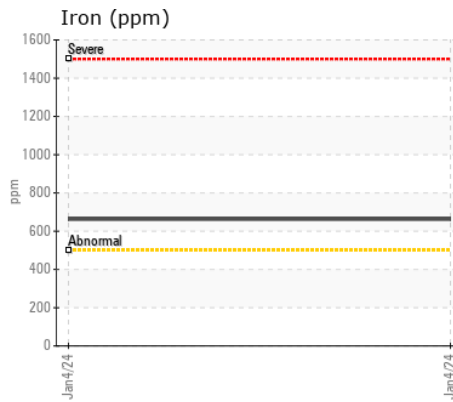
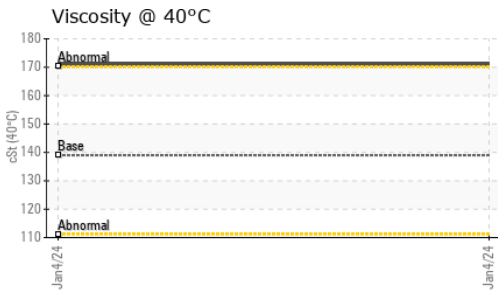
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	326	---	---
Potassium	ppm	ASTM D5185(m)	>20	21	---	---
Water		WC Method	>0.2	NEG	---	---
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	---	---

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		16	---	---
Boron	ppm	ASTM D5185(m)	379	<1	---	---
Barium	ppm	ASTM D5185(m)	0.0	<1	---	---
Molybdenum	ppm	ASTM D5185(m)	0.8	<1	---	---
Manganese	ppm	ASTM D5185(m)	0.0	10	---	---
Magnesium	ppm	ASTM D5185(m)	31	9	---	---
Calcium	ppm	ASTM D5185(m)	38	13	---	---
Phosphorus	ppm	ASTM D5185(m)	1077	275	---	---
Zinc	ppm	ASTM D5185(m)	46	10	---	---
Sulfur	ppm	ASTM D5185(m)	23526	13336	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	139	171	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP393155 **Received** : 15 Jan 2024
Lab Number : 02608774 **Diagnosed** : 16 Jan 2024
Unique Number : 5709860 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: PQ)

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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.