WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

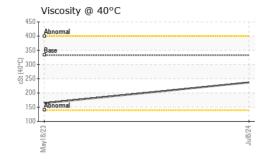
Machine Id

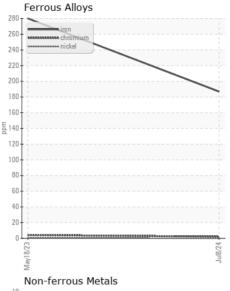
## **VOLVO EC220E 314841**

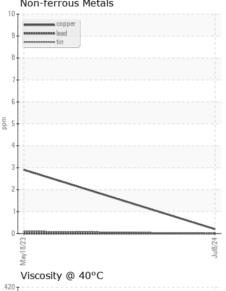
Front Right Final Drive

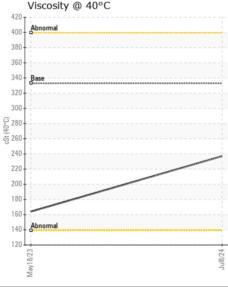
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		ASC0003315	VCP420158	
	Sample Date		Client Info		08 Jul 2024	18 May 2023	
	Machine Age	hrs	Client Info		0	553	
	Oil Age	hrs	Client Info		1033	0	
	Filter Age	hrs	Client Info		1033	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	nnm	ASTM D5185m	>500	187	280	
VEAIT	Chromium	ppm	ASTM D5185m		2	4	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m	>10	0	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	<b>&gt;25</b>	<1	0	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		<1	3	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m	>10	0	0	
	White Metal	scalar	*Visual	NONE	NONE	MODER	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	11	13	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	6	
	Water		WC Method	>0.2	NEG	NEG	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	
	Boron	ppm	ASTM D5185m	111	54	0	
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		<1	0	
	Molybdenum	ppm	ASTM D5185m		1	2	
	Manganese	ppm	ASTM D5185m		3	6	
	Magnesium	ppm	ASTM D5185m		8	1	
	Calcium	ppm	ASTM D5185m		20	13	
	Phosphorus	ppm	ASTM D5185m		693	345	
	Zinc	ppm	ASTM D5185m		26	13	
	Sulfur	ppm	ASTM D5185m		25887	19452	











Certificate L2367

Laboratory Sample No.

: ASC0003315 Lab Number : 06232613 Unique Number : 11116106 Test Package : CONST

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Jul 2024 **Tested** : 11 Jul 2024

Diagnosed : 12 Jul 2024 - Don Baldridge

WHITMIRE GRADING 130 BULLDOZER LANE BREVARD, NC

US 28712 Contact: DENNY WHITMIRE denny@whitmiregrading.com

\* - 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)

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