WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ATTENTION

VOLVO VCP 433447 (S/N NO INFO ON SIF/BOTTLE)

Component Diesel Engine

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP433447		
	Sample Date		Client Info		29 Jan 2024		
	Machine Age	hrs	Client Info		4		
	Oil Age	hrs	Client Info		4		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
/EAR	Iron	ppm	ASTM D5185m	>100	1		
	Chromium	ppm	ASTM D5185m		0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	_	0		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m		- <1		
	Vanadium	ppm	ASTM D5185m	7.0	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	0.11.		AOTA DE LOS	05			
CONTAMINATION	Silicon	ppm	ASTM D5185m		9		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1		
	Fuel	%	ASTM D3524		0.4		
	Water		WC Method	>0.2	NEG		
	Glycol	21	WC Method	0	NEG		
	Soot %	%	*ASTM D7844		0		
	Nitration	Abs/cm	*ASTM D7624	>20	3.5		
	Sulfation	Abs/.1mm	*ASTM D7415		24.7		
	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		
LUID CONDITION	Sodium	ppm	ASTM D5185m		1		
The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m	2.5	39		
	Barium	ppm	ASTM D5185m		1		
	Molybdenum	ppm	ASTM D5185m	0.7	17		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		283		
	Calcium	ppm	ASTM D5185m		4 764		
	Phosphorus	ppm	ASTM D5185m	935	620		
	Zinc	ppm	ASTM D5185m		755		
	Sulfur	ppm	ASTM D5185m		2697		
	Oxidation	Abs/.1mm	*ASTM D7414		19.2		
	Base Number (BN)		ASTM D2896		5.9		
	Visc @ 100°C	cSt	ASTM D445		10.2		





Laboratory Sample No. Lab Number **Unique Number**

: VCP433447 : 06074300 : 10856391

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 30 Jan 2024

Diagnosed : 02 Feb 2024 Diagnostician : Jonathan Hester

Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) Certificate L2367 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)

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