

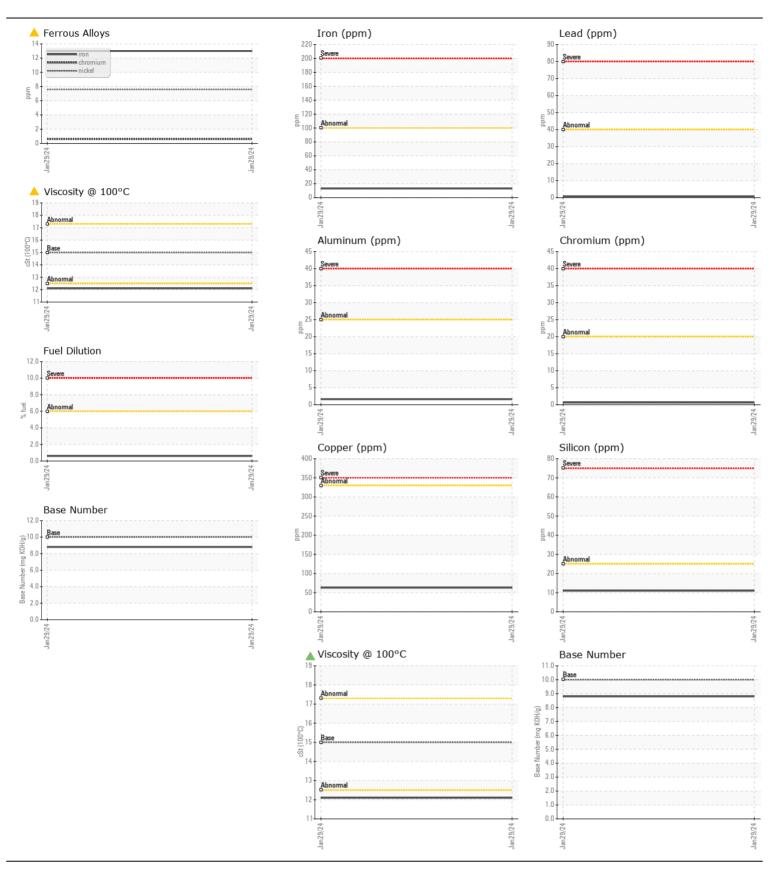
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL NORMAL ATTENTION**



VOLVO A45G 353457

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		VCP430570		
	Sample Date		Client Info		29 Jan 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	nnm	ASTM D5185m	>100	13		
WLAN	Chromium	ppm	ASTM D5185m		าง <1		
The nickel level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		<u> </u>		
		ppm		>८			
	Titanium Silver	ppm	ASTM D5185m	. 2	<1 0		
	Aluminum	ppm	ASTM D5185m ASTM D5185m		2		
		ppm	ASTM D5185m				
	Lead	ppm	ASTM D5185m		<1 63		
	Copper Tin	ppm		>330	2		
	Vanadium	ppm	ASTM D5185m	>10	<1		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal		*Visual	NONE	NONE		
		scalar	Visuai	NONE	INONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	11		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0		
	Fuel	%	ASTM D3524		0.6		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	7.6		
	Sulfation	Abs/.1mm	*ASTM D7415		22.0		
	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	Sodium	ppm	ASTM D5185m		4		
	Boron	ppm	ASTM D5185m	2.5	41		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m	0.0	<1		
	Molybdenum	ppm	ASTM D5185m	0.7	50		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m	256	428		
	Calcium	ppm	ASTM D5185m	2057	1741		
	Phosphorus	ppm	ASTM D5185m	935	955		
	Zinc	ppm	ASTM D5185m		1126		
	Sulfur	ppm	ASTM D5185m		3084		
	Oxidation	Abs/.1mm	*ASTM D7414		18.9		
	Base Number (BN)		ASTM D2896		8.8		
	Visc @ 100°C	cSt	ASTM D445		▲ 12.1		





Certificate L2367

Laboratory Sample No.

Lab Number : 06084434 Unique Number: 10871879

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP430570 Received **Tested**

: 13 Feb 2024 Diagnosed

: 13 Feb 2024 - Jonathan Hester Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

: 09 Feb 2024

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. **COWIN EQUIPMENT COMPANY**

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)