WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Area

## **REGAL COUPE EXPRESS**

VOLVO VV82841

**Left Diesel Engine** 

VOLVO VDS-4.5 Premium Motor Oil 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0847284		
	Sample Date		Client Info		14 Feb 2024		
	Machine Age	hrs	Client Info		120		
	Oil Age	hrs	Client Info		120		
	Filter Age	hrs	Client Info		120		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	>100	16		
Metal levels are typical for a components first oil change.	Chromium	ppm	ASTM D5185(m)		<1		
	Nickel	ppm	ASTM D5185(m)		1		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	>2	0		
	Aluminum	ppm	ASTM D5185(m)		10		
	Lead	ppm	ASTM D5185(m)		4		
	Copper	ppm	ASTM D5185(m)	>330	7		
	Tin	ppm	ASTM D5185(m)		<1		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	9		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		1		
	Fuel	PP	WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*	>3	0		
	Nitration	Abs/cm	ASTM D7624*	>20	6.0		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.6		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	VLITE		
	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 D5185(m)		2		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		9		
	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		59		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)		917		
	Calcium	ppm	ASTM D5185(m)		1221		
	Phosphorus	ppm	ASTM D5185(m)		1063		
	Zinc	ppm	ASTM D5185(m)		1182		
	Sulfur	ppm	ASTM D5185(m)		3201		
	Oxidation	Abs/.1mm	ASTM D7414*	>25	14.2		
	Visc @ 100°C	cSt	ASTM D7279(m)		13.4		





CALA ISO 17025:2017 Accredited Laboratory

Sample No.

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

: WC0847284 Lab Number : 02615865 Unique Number : 5732975

Received : 15 Feb 2024 **Tested** : 20 Feb 2024 Diagnosed : 20 Feb 2024 - Wes Davis

Test Package : MOB 1 (Additional Tests: Visual) 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.



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