

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



VOLVO EC250EL 314086

Component Front Left Final Drive VOLVO 80W (--- GAL)

Test	VOLVO 80W (GAL)							
Resample at the next service interval to monitor. Sample National Sample Client Info CP047778 CP0477176 CP047776 CP0477176 CP047776 CP0477776 CP047776 CP0	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Info A629 A409 A020 A200		Sample Number		Client Info			VCP407176	
	riosampie at the heat service interval to monitor.	Sample Date		Client Info		21 Dec 2023	24 May 2023	
Filter Age		Machine Age	hrs	Client Info		4629	4006	
		Oil Age	hrs	Client Info		0	0	
Filter Changed Mode Mode		Filter Age	hrs	Client Info		0	0	
Normal N		Oil Changed		Client Info		Changed	Not Changd	
Iron		Filter Changed		Client Info		Not Changd	Not Changd	
All component wear rates are normal.		Sample Status				NORMAL	NORMAL	
All component wear rates are normal.	WEAR	Iron	maa	ASTM D5185m	>500	366	315	
Nickel ppm ASTM D5185m >10 <1 0 Titanium ppm ASTM D5185m <1 <1 <-1 Silver ppm ASTM D5185m <2 <-1 <-1 ASTM D5185m >25 2 0 0 ASTM D5185m >25 2 0 0 ASTM D5185m >25 2 0 0 Copper ppm ASTM D5185m >25 <1 0 0 Copper ppm ASTM D5185m >25 <1 0 0 Tin ppm ASTM D5185m >10 0 0 0 Tin ppm ASTM D5185m >10 0 0 0 Vanadium ppm ASTM D5185m >10 0 0 0 White Metal scalar "Visual NONE NONE NONE NONE NONE NONE NONE Water WC Method >0.2 NEG								
Titanium							0	
Silver ppm ASTM DS185m 25 2 0 0 0 0 0 0 0 0 0		Titanium		ASTM D5185m		<1	<1	
Lead		Silver		ASTM D5185m		0	0	
Copper		Aluminum	ppm	ASTM D5185m	>25	2	0	
Tin		Lead	ppm	ASTM D5185m	>25	<1	0	
Vanadium ppm ASTM D5185m 0 0 0		Copper	ppm	ASTM D5185m	>50	<1	<1	
White Metal Scalar Visual NONE NON		Tin	ppm	ASTM D5185m	>10	0	0	
Yellow Metal scalar *Visual NONE N		Vanadium	ppm	ASTM D5185m		0	0	
Silicon ppm ASTM D5185m >75 13 8		White Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium ppm ASTM D5185m >20 3 3		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium ppm ASTM D5185m >20 3 3	CONTAMINATION	Silioon	nnm	ASTM DE185m	- 75	12	0	
Water WC Method >0.2 NEG NEG								
Sit	There is no indication of any contamination in the oil.		ррпп					
Debris Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NORML NORML			scalar					
Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML								
Appearance Scalar *Visual NORML NORM		Sand/Dirt						
Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG		Appearance						
Sodium ppm ASTM D5185m 0			scalar	*Visual				
Boron ppm ASTM D5185m 112 120		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Boron ppm ASTM D5185m 112 120	FLUID CONDITION	Sodium	nnm	ΔSTM D5185m		0	0	
Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 2 <1 Manganese ppm ASTM D5185m 3 2 Magnesium ppm ASTM D5185m 3 2 Calcium ppm ASTM D5185m 60 21 Phosphorus ppm ASTM D5185m 861 877 Zinc ppm ASTM D5185m 30 19 Sulfur ppm ASTM D5185m 22483 22780								
Molybdenum ppm ASTM D5185m 2 <1	The condition of the oil is acceptable for the time in service.							
Manganese ppm ASTM D5185m 3 2 Magnesium ppm ASTM D5185m 3 2 Calcium ppm ASTM D5185m 60 21 Phosphorus ppm ASTM D5185m 861 877 Zinc ppm ASTM D5185m 30 19 Sulfur ppm ASTM D5185m 22483 22780								
Magnesium ppm ASTM D5185m 3 2 Calcium ppm ASTM D5185m 60 21 Phosphorus ppm ASTM D5185m 861 877 Zinc ppm ASTM D5185m 30 19 Sulfur ppm ASTM D5185m 22483 22780		-						
Phosphorus ppm ASTM D5185m 861 877 Zinc ppm ASTM D5185m 30 19 Sulfur ppm ASTM D5185m 22483 22780		Magnesium					2	
Zinc ppm ASTM D5185m 30 19 Sulfur ppm ASTM D5185m 22483 22780		Calcium	ppm	ASTM D5185m		60	21	
Sulfur ppm ASTM D5185m 22483 22780		Phosphorus	ppm	ASTM D5185m		861	877	
		Zinc	ppm	ASTM D5185m		30	19	
Visc @ 40°C cSt ASTM D445 138		Sulfur	ppm	ASTM D5185m		22483	22780	
		Visc @ 40°C	cSt	ASTM D445		136	138	





Certificate L2367

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

: VCP407079 : 06054335 : 10820284 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 08 Jan 2024 : 09 Jan 2024 Diagnosed Diagnostician : Wes Davis

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)

CITY CARTING

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