

CONSTRUCTION EQUIPMENT 380415 VOLVO EC305CL 110686 - DIESEL ENGINE



Sample No: VCP408491

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: 380415

SAMPLE IN	NFORMATION				
Sample Number	-	VCP408491	VCP405731		
Sample Date		05 Oct 2023	12 Apr 2023		
Machine Hours		4660	4370		
Oil Hours		400	300		
Oil Changed		Not Changd	Changed		
Sample Status		SEVERE	ABNORMAL		
VOLVO	TION				
OIL CONDI.					
Visc @ 100°C	cSt	15.2	<u>11.8</u>		
Base Number (BN)	mg KOH/g	43.2	■9.0		
Oxidation (PA)	%	71	67		
VOLVO					
CONTAMIN	NATION				
Soot %	%	□ 0.3	□0.1		
Nitration (PA)	%	73	43		
Sulfation (PA)	%	44	54		
Glycol	%	0.10	NEG		
Fuel	%	<1.0	□ 0.2		
Silicon	ppm	□ 13	△ 29		
Sodium	ppm	▲ 456	6		
Potassium	ppm	▲ 339	11		
Totassiam	PPIII	_ 333			
VOLVO					
WEAR ME	TALS				
Iron	ppm	■20	1 4		
Copper	ppm	13	■5		
Lead	ppm	■ 0	- <1		
Tin	ppm	■1	1		
Aluminum	ppm	■ 3	2		
Chromium	ppm	■ 3	5		
Molybdenum	ppm	■ 54	■ 54		
Nickel	ppm	■<1	0		
Titanium	ppm	9	0		
Silver	ppm	■<1	0		
Manganese	ppm	■1	2		
Vanadium	ppm	<1	0		
ADDITIVES					
_		1642	m 1572		
Calcium	ppm	■ 1643	1573		
Magnesium Zinc	ppm	■ 512	□ 446 □ 1071		
	ppm	■ 1226	1071		
Phosphorus	ppm	■ 973	■893		

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ALTA EQUIPMENT COMPANY- BYRON CENTER 8840 BYRON COMMERCE DR SW BYRON CENTER, MI US 49315 Contact: BRIAN RESER brian.reser@altaequipment.com T: (616)878-7450 F: (616)878-7650

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is positive. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot:VOLVO0046Unique No:10701660Signed:Jonathan HesterReport Date:24 Oct 2023

ppm

ppm

Barium

Boron

0

86



CONSTRUCTION EQUIPMENT





