CONSTRUCTION EQUIPMENT SW-22092 SEG1 ADAM G VOLVO EC210BLC 16849 - DIESEL ENGI

Sample No: VCP412541 **Oil Type:**

VOLVO

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 Job No: SW-22092 SEG1 ADAM G

SAMPLE INFORMATION

Sample Number	-	VCP412541	VCP406973	
Sample Date		29 Aug 2023	10 Aug 2023	
Machine Hours		9439	9439	
Oil Hours		20	0	
Oil Changed		Not Changd	Not Changd	
Sample Status		ABNORMAL	MARGINAL	
OIL CONDI				
	_		<u>-</u> .	
Visc @ 100°C	cSt	10.2	11.1	
Base Number (BN)	mg KOH/g	■ 7.0	7.0	
Oxidation (PA)	%	43	44	
CONTAMIN				
	-		<u>-</u> .	
Soot %	%	0	0.1	
Nitration (PA)	%	35	34	
Sulfation (PA)	%	46	45	
Glycol	%	NEG	NEG	
Fuel	%	6 .1	▲ 3.2	
Silicon	ppm	1 4	10	
Sodium	ppm	2	 <1	
Potassium	ppm	2	2	



WEAR METALS Iron ppm 15 12 Copper ppm 2 2 Lead ppm 0 <1 Tin ppm <1 0 Aluminum ppm 3 2 Chromium ppm <1 <1 Molybdenum ppm 36 40 Nickel ppm 0 <1 Silver ppm 0 0	VOLVO								
Iron ppm 15 12 Copper ppm 2 2 Lead ppm 0 <1									
Copper ppm 2 Lead ppm 0 <1 Tin ppm <1 0 Aluminum ppm 3 2 Chromium ppm <1 <1 Molybdenum ppm 36 40 Nickel ppm 0 <1 Titanium ppm <1 <1 Silver ppm 0 0			— 15	12					
Lead ppm 0 <1	IIOII	ppm	I 15	12					
Tin ppm <1 0 Aluminum ppm 3 2 Aluminum ppm <1	Copper	ppm	2	2					
Aluminum ppm 3 2 Chromium ppm <1	Lead	ppm	0	< 1					
Chromium ppm <1 <1 Molybdenum ppm 36 40 Nickel ppm 0 <1	Tin	ppm		0					
Molybdenum ppm 36 40 Nickel ppm 0 <1 Titanium ppm <1 Silver ppm 0 0	Aluminum	ppm	3	2					
Nickel ppm 0 <1 Titanium ppm <1	Chromium	ppm		 <1					
Titanium ppm <1 Silver ppm 0 0	Molybdenum	ppm	36	40					
Silver ppm 0 0	Nickel	ppm	0	<1					
	Titanium	ppm	<1	<1					
	Silver	ppm	0	0					
	Manganese	ppm	□<1	<1					
Vanadium ppm 0 0	Vanadium	ppm	0	0					

ADDITIVES Calcium ppm 1069 1018 539 Magnesium 574 ppm Zinc 915 953 ppm Phosphorus ppm 785 801 Barium 2 0 ppm 24 14 Boron ppm



ARNOLD MACHINERY COMPANY

2975 WEST 2100 SOUTH SALT LAKE CITY, UT US 84119 Contact: JUSTIN BENCH JUSTIN.BENCH@ARNOLDMACHINERY.COM T: (801)698-5639 F: (801)975-9434

Diagnosis

We advise that you check the fuel injection system. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of fuel present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.

Depot: VOLV08770 Unique No: 10633997 Signed: Sean Felton Report Date: 08 Sep 2023

Report Id: VOLVO8770 [WUSCAR] 05943385 (Generated: 09/08/2023 12:14:04) Rev: 1

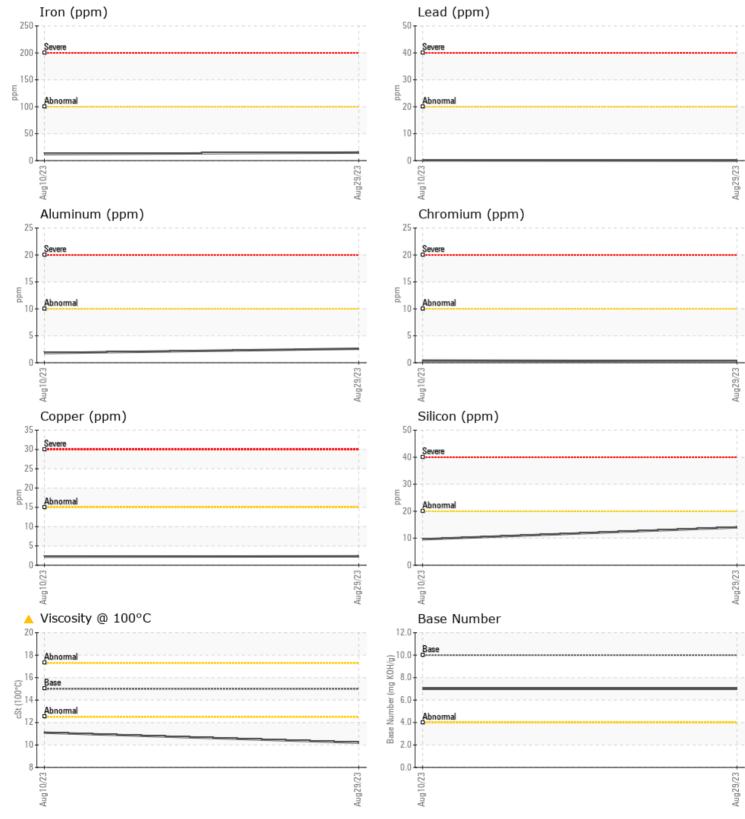
Contact/Location: JUSTIN BENCH - VOLVO8770

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



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Contact/Location: JUSTIN BENCH - VOLVO8770