## CONSTRUCTION EQUIPMENT 11052 VOLVO EC380E 310536 - DIESEL ENGINE



## Sample No: VCP440578

VOLVO

Oil Type:	VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:	11052

### SAMPLE INFORMATION VCP440578 Sample Number VCP353990 Sample Date 06 Sep 2023 19 Aug 2022 Machine Hours 3895 3522 Oil Hours 0 0 Oil Changed Changed Not Changd ABNORMAL SEVERE Sample Status **OIL CONDITION** Visc @ 100°C cSt **11.1** 12.7 5.3 Base Number (BN) mg KOH/g 8.1 Oxidation (PA) 72 63 %

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Soot %	%	0.1	0.1	 
Nitration (PA)	%	58	64	 
Sulfation (PA)	%	56	63	 
Glycol	%	NEG	NEG	 
Fuel	%	<b>4</b> .7	< 1.0	 
Silicon	ppm	<b>A</b> 38	<u> </u>	 
Sodium	ppm	9	0	 
Potassium	ppm	8	0	 

WEAR N	METALS			
Iron	ppm	11	90	 
Copper	ppm	6	9372	 
Lead	ppm	2	136	 
Tin	ppm	3	931	 
Aluminum	ppm	2	936	 
Chromium	ppm	<b></b> <1	<1	 
Molybdenum	ppm	55	9	 
Nickel	ppm	<b></b> <1	4	 
Titanium	ppm	<1	< 1	 
Silver	ppm	0	1	 
Manganese	ppm	2	2	 
Vanadium	ppm	0	0	 

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ADDITIVES					
Calcium	ppm	1572	2258		
Magnesium	ppm	<b>430</b>	146		
Zinc	ppm	<b>1052</b>	1140		
Phosphorus	ppm	845	867		
Barium	ppm	0	0		
Boron	ppm	<b>46</b>	4		



### **HOFFMAN EQUIPMENT - LIONVILLE**

120 GORDON DRIVE LIONVILLE, PA US 19341 Contact: JIM FEHR jim.fehr@hoffmanequip.com T: (610)363-9200 F: (610)594-0829

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Light fuel dilution occurring. Elemental level of silicon (Si) above normal indicating ingress of seal material. Fuel is present in the oil and is lowering the viscosity.

 Depot:
 VOLVO8879

 Unique No:
 10657345

 Signed:
 Doug Bogart

 Report Date:
 21 Sep 2023

Report Id: VOLVO8879 [WUSCAR] 05956132 (Generated: 10/01/2023 09:12:53) Rev: 1

Contact/Location: JIM FEHR - VOLVO8879

# **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO

