CONSTRUCTION EQUIPMENT 595666 RUBYS RECYC VOLVO EC220 314072 - DIESEL ENGINE

 Sample No:
 VCP416918

 Oil Type:
 VOLVO ULTRA

 Job No:
 595666 RUBY:

VOLVO

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
 595666 RUBYS RECYC

SAMPLE INFORMATION

Sample Number	-	VCP416918	VCP382755	
Sample Date		06 Sep 2023	16 Mar 2023	
Machine Hours		2574	1521	
Oil Hours		500	500	
Oil Changed		Changed	Changed	
Sample Status		ABNORMAL	NORMAL	
OIL CONDI				
		-		
Visc @ 100°C	cSt	15.2	13.1	
Base Number (BN)	mg KOH/g	5.7	8.1	
Oxidation (PA)	%	105	87	
	IATION			
Soot %	%	0.3	0.2	
Nitration (PA)	%	96	83	
Sulfation (PA)	%	69	61	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	< 1.0	
Silicon	ppm	6	9	
Sodium	ppm	2	2	
Potassium	ppm	□ <1	1	

WEAD

WEAK M	IE I ALS				
Iron	ppm	25	28	 	
Copper	ppm	2	2	 	
Lead	ppm	0	0	 	
Tin	ppm		 <1	 	
Aluminum	ppm	🔺 16	4	 	
Chromium	ppm	2	1	 	
Molybdenum	ppm	74	46	 	
Nickel	ppm	0	<1	 	
Titanium	ppm	0	0	 	
Silver	ppm	0	0	 	
Manganese	ppm	■ <1	< 1	 	
Vanadium	ppm	0	0	 	

vanadiu

ADDITIVES					
Calcium	ppm	1769	1663		
Magnesium	ppm	910	371		
Zinc	ppm	🔲 1599	1038		
Phosphorus	ppm	1217	855		
Barium	ppm	0	0		
Boron	ppm	27	25		



ALTA EQUIPMENT COMPANY - METRO WEST

56195 PONTIAC TRAIL NEW HUDSON, MI US 48165 Contact: PAUL ELZERMAN paul.elzerman@altaequipment.com T: (248)356-5200 F: (248)356-2029

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.The aluminum level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 VOLVO2990

 Unique No:
 10644717

 Signed:
 Don Baldridge

 Report Date:
 14 Sep 2023

Report Id: VOLVO2990 [WUSCAR] 05948758 (Generated: 09/15/2023 08:40:18) Rev: 1

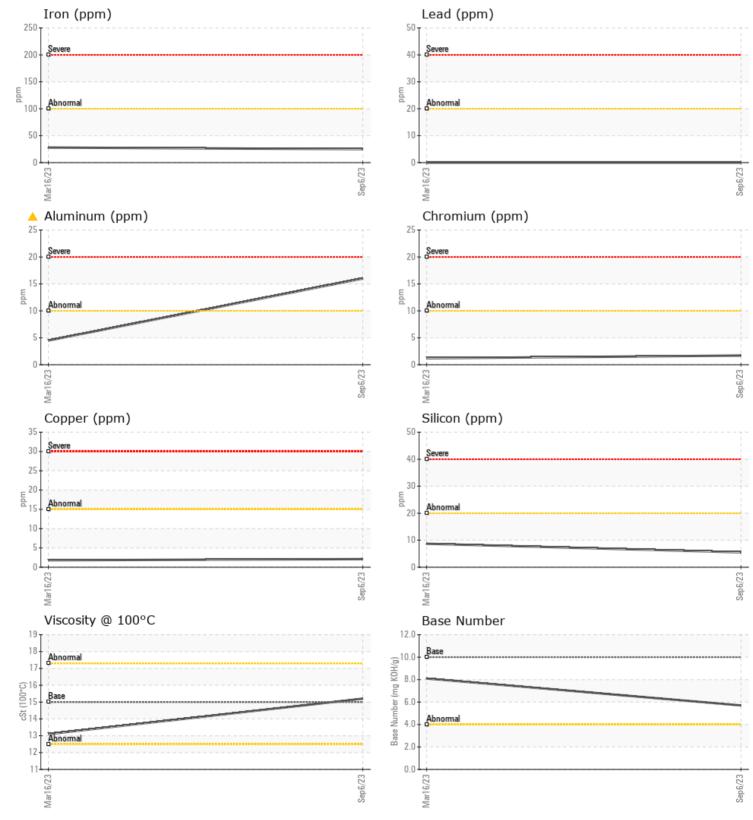
Contact/Location: PAUL ELZERMAN - VOLVO2990

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Report Id: VOLVO2990 [WUSCAR] 05948758 (Generated: 09/15/2023 08:40:21) Rev: 1

Contact/Location: PAUL ELZERMAN - VOLVO2990