CONSTRUCTION EQUIPMENT 581592 EGH TAKEUCHI TL 12V2 412103590 - DIESEL ENGINE

 Sample No:
 VCP392966

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

 Job No:
 581592 E&H

SAMPLE INFORMATION

VOLVO

Sample Number		VCP392966	VCP347184	
Sample Date		02 Aug 2023	16 Dec 2021	
Machine Hours		1065	621	
Oil Hours		500	122	
Oil Changed		Changed	Not Changd	
Sample Status		ABNORMAL	NORMAL	
OIL CONDI	TION			
Visc @ 100°C	cSt	12.7	13.3	
Base Number (BN)	mg KOH/g	9.1	11.6	
Oxidation (PA)	%	82	86	
CONTAMIN	IATION			
Soot %	%	0.8	0.8	
Nitration (PA)	%	80	74	
Sulfation (PA)	%	64	66	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	< 1.0	
Silicon	ppm	<u> </u>	13	
Sodium	ppm	1 4	4	
Potassium	ppm	■ <1	18	

otassium

WEAR N	METALS			
Iron	ppm	77	23	
Copper	ppm	25	16	
Lead	ppm	0	<1	
Tin	ppm	 <1	<1	
Aluminum	ppm	A 35	3	
Chromium	ppm	2	<1	
Molybdenum	ppm	52	55	
Nickel	ppm	 <1	 <1	
Titanium	ppm	<1	 < 1	
Silver	ppm	0	0	
Manganese	ppm	3	 < 1	
Vanadium	ppm	<1	0	

vanadiu

Calcium	ppm	1887	1951					
Magnesium	ppm	580	492					
Zinc	ppm	1218	1092					
Phosphorus	ppm	958	911					
Barium	ppm	0	0					
Boron	ppm	37	30					



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC

8418 PALM RIVER ROAD TAMPA, FL US 33619 Contact: JOHN FARDELLA JFARDELLA@ALTAEQUIPFL.COM T: (813)630-0077 F: (813)630-2233

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.The aluminum level is abnormal. All other component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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:VCUnique No:10Signed:JonReport Date:29

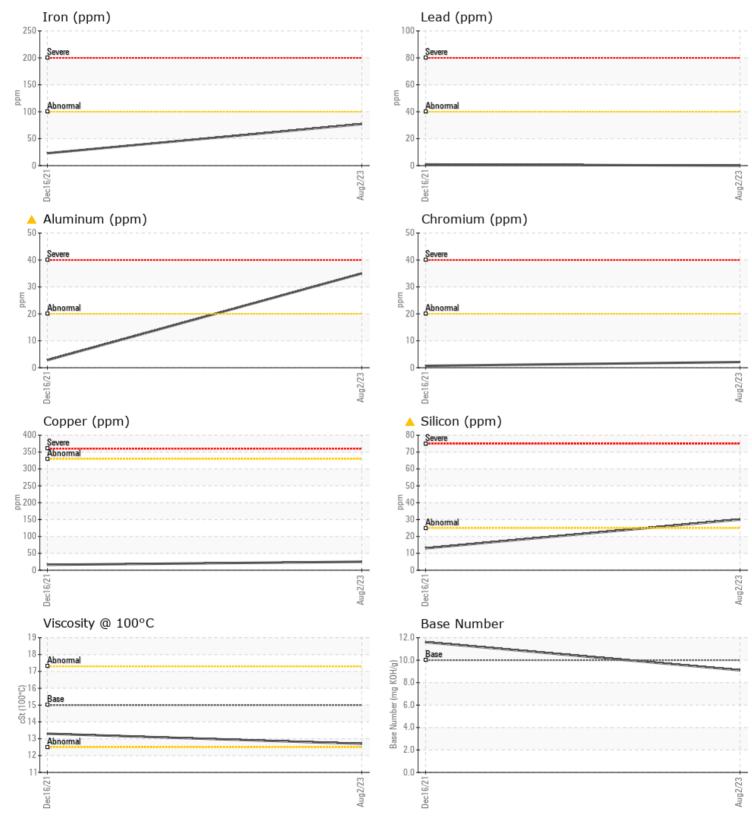
VOLVO0093 10619897 Jonathan Hester 29 Aug 2023

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Report Id: VOLVO0093 [WUSCAR] 05934626 (Generated: 08/29/2023 12:51:46) Rev: 1

Contact/Location: JOHN FARDELLA - VOLVO0093