VOLVO

CONSTRUCTION EQUIPMENT MOSAIC VOLVO EC480EL 314204 - DIESEL ENGINE



Sample No: VCP452351Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No:

Glycol

Fuel

MOSAIC

SAMPLE INFORMATION

%

%

NEG

<1.0

Sample Number		VCP452351	VCP386638			
Sample Date		14 May 2024	19 Jan 2023			
Machine Hours		5353	4222			
Oil Hours		10	0			
Oil Changed		Changed	Not Changd			
Sample Status		ABNORMAL	ATTENTION			
OIL CONDI	ABNORMAL ATTENTION OIL CONDITION 00°C cSt 12.8 12.1 nber (BN) mg KOH/g 11.0 6.7					
Visc @ 100°C	cSt	12.8	12.1			
Base Number (BN)	mg KOH/g	■ 11.0	6.7			
Oxidation (PA)	%	77	69			
CONTAMIN	ATION					
Water	%	NEG	NEG			
Soot %	%	∎0.1	0.2			
Nitration (PA)	%	42	80			
Sulfation (PA)	%	60	64			



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC

8418 PALM RIVER ROAD TAMPA, FL US 33619 Contact: KENNY HANEY khaney@flaglerce.com T: (813)630-0077 F: (813)630-2233

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.Valve wear is indicated. 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.

Silicon	ppm	<u> </u>	14	
Sodium	ppm	19	2	
Potassium	ppm	7	0	
WEAR I	METALS			
Iron	ppm	18	15	
Copper	ppm	4	6	
Lead	ppm	4	0	
Tin	ppm	2	0	
Aluminum	ppm	3	2	
Chromium	ppm	∎1	1	
Molybdenum	ppm	51	64	
Nickel	ppm	🔺 16	1	
Titanium	ppm	<1	<1	
Silver	ppm		0	
Manganese	ppm	4	<1	
Vanadium	ppm	<1	0	

NEG

2.6

ADDITIVES 2227 1769 Calcium ppm Magnesium 652 330 ppm Zinc ppm 1500 1101 1337 Phosphorus ppm 877 Barium 0 0 🔲 ppm 80 44 Boron ppm

 Depot:
 VOLV00093

 Unique No:
 11032231

 Signed:
 Jonathan Hester

 Report Date:
 18 May 2024

Report Id: VOLVO0093 [WUSCAR] 06180905 (Generated: 05/18/2024 19:02:05) Rev: 1

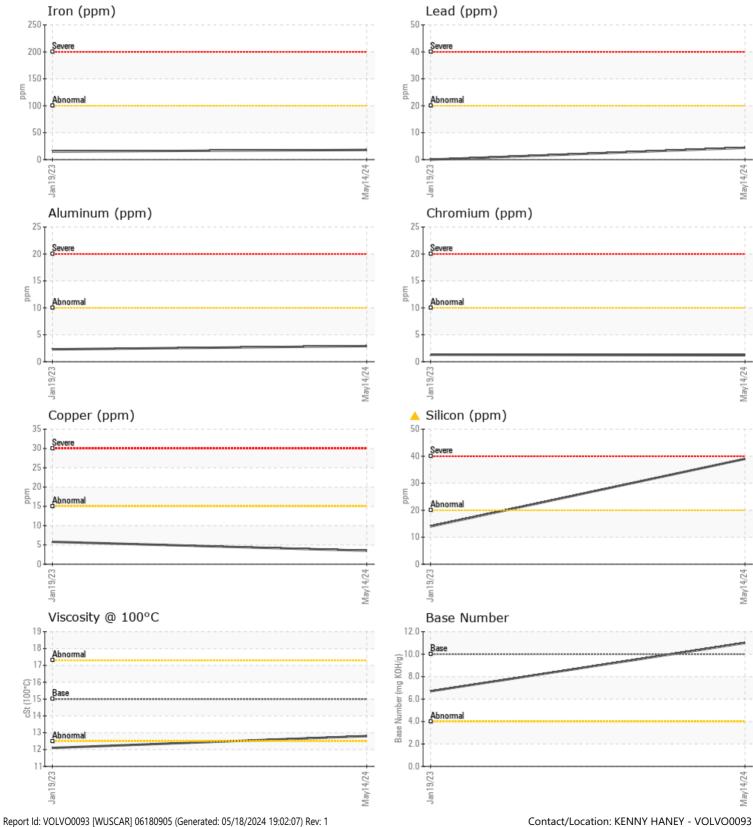
Contact/Location: KENNY HANEY - VOLVO0093

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Contact/Location: KENNY HANEY - VOLVO0093