



CONSTRUCTION EQUIPMENT

W07013045-1 TIDEWATE VOLVO L120H 633107 - DIESEL ENGINE



Sample No: VCP418008
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: W07013045-1 TIDEWATE



SAMPLE INFORMATION

Sample Number	VCP418008	VCP425033	VCP421121	VCP399839
Sample Date	20 Jul 2023	05 Jun 2023	04 Apr 2023	27 Feb 2023
Machine Hours	4606	4012	3625	2808
Oil Hours	0	0	0	500
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

McClung-Logan Virginia LLC- RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
 Contact: KYLE RATLIFFE
 KRATLIFFE@MCCLUNG-LOGAN.COM
 T:
 F: (804)266-1611



OIL CONDITION

Visc @ 100°C	cSt	13.6	13.5	13.6	13.7
Base Number (BN)	mg KOH/g	8.0	5.8	7.0	8.6
Oxidation (PA)	%	68	53	49	69



CONTAMINATION

Soot %	%	0.5	0.5	0.4	0.3
Nitration (PA)	%	80	69	65	75
Sulfation (PA)	%	55	55	49	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	8	5
Sodium	ppm	3	<1	4	3
Potassium	ppm	<1	2	2	2



WEAR METALS

Iron	ppm	11	13	17	10
Copper	ppm	<1	1	2	3
Lead	ppm	<1	<1	<1	<1
Tin	ppm	1	1	2	1
Aluminum	ppm	3	3	6	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	46	24	43	57
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	<1



ADDITIVES

Calcium	ppm	1428	2091	3300	1356
Magnesium	ppm	703	128	284	678
Zinc	ppm	944	1040	1732	952
Phosphorus	ppm	769	846	1429	769
Barium	ppm	0	0	0	0
Boron	ppm	17	8	24	33

Diagnosis

Resample at the next service interval to monitor. All 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 suitable for further service.

Depot: VOLVO8882
Unique No: 10573017
Signed: Wes Davis
Report Date: 26 Jul 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

