



CONSTRUCTION EQUIPMENT

W07013615-1 TIDEWATE VOLVO L120H 633107 - DIESEL ENGINE



Sample No: VCP409421
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: W07013615-1 TIDEWATE



SAMPLE INFORMATION

Sample Number	VCP409421	VCP418008	VCP425033	VCP421121
Sample Date	12 Oct 2023	20 Jul 2023	05 Jun 2023	04 Apr 2023
Machine Hours	5558	4606	4012	3625
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

MCCLUNG-LOGAN EQUIPMENT CO - 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	14.1	13.6	13.5	13.6
Base Number (BN)	mg KOH/g	5.8	8.0	5.8	7.0
Oxidation (PA)	%	71	68	53	49



CONTAMINATION

Soot %	%	0.9	0.5	0.5	0.4
Nitration (PA)	%	88	80	69	65
Sulfation (PA)	%	61	55	55	49
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	6	5	8
Sodium	ppm	3	3	<1	4
Potassium	ppm	1	<1	2	2



WEAR METALS

Iron	ppm	17	11	13	17
Copper	ppm	1	<1	1	2
Lead	ppm	4	<1	<1	<1
Tin	ppm	2	1	1	2
Aluminum	ppm	7	3	3	6
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	76	46	24	43
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	2058	1428	2091	3300
Magnesium	ppm	219	703	128	284
Zinc	ppm	1178	944	1040	1732
Phosphorus	ppm	933	769	846	1429
Barium	ppm	0	0	0	0
Boron	ppm	22	17	8	24

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: 10708828
Signed: Wes Davis
Report Date: 24 Oct 2023



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GRAPHS

