



CONSTRUCTION EQUIPMENT

580521 CITRUS CO LF VOLVO L110H 632392 - DIESEL ENGINE



Sample No: VCP425883
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 580521 CITRUS CO LF



SAMPLE INFORMATION

Sample Number	VCP425883	VCP406812	VCP395738	VCP388244
Sample Date	26 Jul 2023	01 May 2023	02 Feb 2023	27 Oct 2022
Machine Hours	2132	1543	1058	522
Oil Hours	500	0	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.7	12.8	12.1
Base Number (BN)	mg KOH/g	9.8	10.4	10.2	11
Oxidation (PA)	%	77	78	79	76



CONTAMINATION

Soot %	%	0.4	0.3	0.3	0.4
Nitration (PA)	%	57	57	57	63
Sulfation (PA)	%	59	61	61	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	6	14
Sodium	ppm	2	0	<1	3
Potassium	ppm	2	2	2	0



WEAR METALS

Iron	ppm	12	12	15	29
Copper	ppm	3	3	5	11
Lead	ppm	1	<1	<1	2
Tin	ppm	2	<1	1	2
Aluminum	ppm	6	3	9	31
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	43	48	41	42
Nickel	ppm	<1	<1	1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	0	<1	<1
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1692	1641	1475	1608
Magnesium	ppm	527	472	451	554
Zinc	ppm	1183	1079	1004	1141
Phosphorus	ppm	963	899	827	965
Barium	ppm	0	0	0	9
Boron	ppm	32	42	39	47

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: VOLVO0093
Unique No: 10601865
Signed: Wes Davis
Report Date: 11 Aug 2023



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GRAPHS

