



CONSTRUCTION EQUIPMENT

225209 CRC WM VOLVO L120H 632093 - DIESEL ENGINE



Sample No: VCP424164
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 225209 CRC WM



SAMPLE INFORMATION

Sample Number	VCP424164	VCP403244	VCP363785	VCP351801
Sample Date	07 Sep 2023	07 Jul 2023	11 Oct 2022	18 Apr 2022
Machine Hours	18922	18667	16539	15363
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.5	14.4	14.9
Base Number (BN)	mg KOH/g	10.0	9.5	8.1	7.1
Oxidation (PA)	%	82	88	108	83



CONTAMINATION

Soot %	%	0.3	0.3	0.4	0.2
Nitration (PA)	%	61	77	109	93
Sulfation (PA)	%	63	66	77	71
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	7	11	7
Sodium	ppm	4	0	<1	1
Potassium	ppm	0	1	0	2



WEAR METALS

Iron	ppm	10	11	15	11
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	7	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	44	44	31	19
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1859	1689	2072	2394
Magnesium	ppm	611	582	431	304
Zinc	ppm	1427	1227	1236	1341
Phosphorus	ppm	1215	1018	1001	1080
Barium	ppm	0	0	0	0
Boron	ppm	54	43	26	27

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: VOLVO1271
Unique No: 10648383
Signed: Wes Davis
Report Date: 18 Sep 2023



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GRAPHS

