



CONSTRUCTION EQUIPMENT

225249 CRC VOLVO L120H 632093 - DIESEL ENGINE



Sample No: VCP424162
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 225249 CRC



SAMPLE INFORMATION

Sample Number	VCP424162	VCP424164	VCP403244	VCP346236
Sample Date	21 Sep 2023	07 Sep 2023	07 Jul 2023	31 Mar 2023
Machine Hours	19017	18922	18667	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.6	13.5	15.0
Base Number (BN)	mg KOH/g	10.2	10.0	9.5	6.5
Oxidation (PA)	%	87	82	88	79

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.



CONTAMINATION

Soot %	%	0.4	0.3	0.3	0.3
Nitration (PA)	%	68	61	77	94
Sulfation (PA)	%	66	63	66	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	11	7	8
Sodium	ppm	4	4	0	2
Potassium	ppm	0	0	1	1



WEAR METALS

Iron	ppm	12	10	11	20
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	7	2	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	44	44	27
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1746	1859	1689	2132
Magnesium	ppm	594	611	582	473
Zinc	ppm	1414	1427	1227	1337
Phosphorus	ppm	1139	1215	1018	1047
Barium	ppm	0	0	0	0
Boron	ppm	41	54	43	28

Depot: VOLVO1271
Unique No: 10674123
Signed: Wes Davis
Report Date: 04 Oct 2023



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GRAPHS

