



CONSTRUCTION EQUIPMENT

A12302 VOLVO L220H 3380 - DIESEL ENGINE



Sample No: VCP445516
Oil Type: MOBIL 15W40
Job No: A12302



SAMPLE INFORMATION

Sample Number	VCP445516	VCP434164	VCP431259	VCP421952
Sample Date	21 Mar 2024	10 Jan 2024	17 Oct 2023	21 Jun 2023
Machine Hours	5100	4610	4025	3180
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.7	13.5	13.3
Base Number (BN)	mg KOH/g	6.5	6.5	9.4	7.2
Oxidation (PA)	%	39	41	61	43

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	55	56	54	58
Sulfation (PA)	%	46	47	53	47
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	13	11	9
Sodium	ppm	2	0	3	2
Potassium	ppm	2	2	0	2



WEAR METALS

Iron	ppm	2	2	<1	3
Copper	ppm	2	1	<1	6
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	1	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	7	12	42	15
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	2249	1946	1513	2211
Magnesium	ppm	84	189	519	146
Zinc	ppm	1078	1133	1209	1139
Phosphorus	ppm	769	954	921	935
Barium	ppm	0	0	0	0
Boron	ppm	6	10	37	6

Depot: COVBAl
Unique No: 10949740
Signed: Wes Davis
Report Date: 27 Mar 2024



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GRAPHS

