



CONSTRUCTION EQUIPMENT

A12798 VOLVO L220H 3380 - DIESEL ENGINE



Sample No: VCP426970
Oil Type: MOBIL 15W40
Job No: A12798



SAMPLE INFORMATION

Sample Number	VCP426970	VCP445516	VCP434164	VCP431259
Sample Date	06 Jun 2024	21 Mar 2024	10 Jan 2024	17 Oct 2023
Machine Hours	5605	5100	4610	4025
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	12.8	12.9	12.7	13.5
Base Number (BN)	mg KOH/g	6.2	6.5	6.5	9.4
Oxidation (PA)	%	44	39	41	61

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	59	55	56	54
Sulfation (PA)	%	49	46	47	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	15	6	13	11
Sodium	ppm	2	2	0	3
Potassium	ppm	4	2	2	0

WEAR METALS

Iron	ppm	1	2	2	<1
Copper	ppm	<1	2	1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	<1	0	<1	0
Aluminum	ppm	1	<1	1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	5	7	12	42
Nickel	ppm	<1	0	<1	0
Titanium	ppm	24	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	2097	2249	1946	1513
Magnesium	ppm	193	84	189	519
Zinc	ppm	1145	1078	1133	1209
Phosphorus	ppm	987	769	954	921
Barium	ppm	0	0	0	0
Boron	ppm	33	6	10	37

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: COVBAL
Unique No: 11088267
Signed: Wes Davis
Report Date: 21 Jun 2024



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GRAPHS

