



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 3068 - DIESEL ENGINE



Sample No: VCP429837
Oil Type: MOBIL 15W40
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

Sample Number	VCP429837	VCP400162	VCP402494	VCP384997
Sample Date	01 Dec 2023	12 Oct 2023	18 Apr 2023	06 Feb 2023
Machine Hours	11878	11271	10797	10014
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	13.2	12.8	13.1
Base Number (BN)	mg KOH/g	8.7	9.1	7.3	8.4
Oxidation (PA)	%	60	61	64	60

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.3	0.2
Nitration (PA)	%	59	58	68	65
Sulfation (PA)	%	53	54	56	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	3	3	3
Sodium	ppm	3	1	1	2
Potassium	ppm	7	0	0	<1

WEAR METALS

Iron	ppm	28	6	5	3
Copper	ppm	2	4	<1	1
Lead	ppm	0	<1	0	1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	7	<1	<1	<1
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	67	63	71	76
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1228	1136	1158	1238
Magnesium	ppm	868	981	954	877
Zinc	ppm	1203	1287	1277	1202
Phosphorus	ppm	1006	1040	981	940
Barium	ppm	0	0	0	0
Boron	ppm	18	6	7	29

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: VOLVO1835
Unique No: 10777242
Signed: Wes Davis
Report Date: 08 Dec 2023



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GRAPHS

