



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 3069 - DIESEL ENGINE



Sample No: VCP371218
Oil Type: MOBIL 15W40
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

Sample Number	VCP371218	VCP384991	VCP371222	VCP382620
Sample Date	31 Oct 2023	18 Apr 2023	24 Feb 2023	10 Jan 2023
Machine Hours	13891	13507	12964	12334
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.7	13.0	12.6
Base Number (BN)	mg KOH/g	9.2	9.1	8.5	9.1
Oxidation (PA)	%	62	60	62	55



CONTAMINATION

Soot %	%	0.3	0.2	0.3	0.6
Nitration (PA)	%	58	59	66	60
Sulfation (PA)	%	55	53	53	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	4	5
Sodium	ppm	2	1	2	<1
Potassium	ppm	4	0	2	1



WEAR METALS

Iron	ppm	6	3	3	6
Copper	ppm	14	<1	2	3
Lead	ppm	1	0	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	<1	<1	3
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	61	69	69	56
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	1	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1171	1208	1213	1201
Magnesium	ppm	1041	941	856	900
Zinc	ppm	1216	1274	1108	1279
Phosphorus	ppm	1069	1008	890	974
Barium	ppm	1	0	0	0
Boron	ppm	6	12	20	15

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: 10729725
Signed: Wes Davis
Report Date: 09 Nov 2023



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GRAPHS

