



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 3069 - DIESEL ENGINE



Sample No: VCP428884
Oil Type: MOBIL 15W40
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

Sample Number	VCP428884	VCP371218	VCP384991	VCP371222
Sample Date	12 Dec 2023	31 Oct 2023	18 Apr 2023	24 Feb 2023
Machine Hours	14549	13891	13507	12964
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	13.1	12.7	13.0
Base Number (BN)	mg KOH/g	8.6	9.2	9.1	8.5
Oxidation (PA)	%	61	62	60	62



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.2	0.3
Nitration (PA)	%	61	58	59	66
Sulfation (PA)	%	53	55	53	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	3	4
Sodium	ppm	1	2	1	2
Potassium	ppm	1	4	0	2



WEAR METALS

Iron	ppm	3	6	3	3
Copper	ppm	2	14	<1	2
Lead	ppm	<1	1	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	1	2	<1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	66	61	69	69
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	1
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1045	1171	1208	1213
Magnesium	ppm	899	1041	941	856
Zinc	ppm	1196	1216	1274	1108
Phosphorus	ppm	992	1069	1008	890
Barium	ppm	0	1	0	0
Boron	ppm	8	6	12	20

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 acceptable for the time in service.

Depot: VOLVO1835
Unique No: 10795628
Signed: Don Baldrige
Report Date: 21 Dec 2023



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GRAPHS

