



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 2268 - DIESEL ENGINE



Sample No: VCP400156
Oil Type: MOBIL 15W40
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

Sample Number	VCP400156	VCP371212	VCP402496	VCP393732
Sample Date	31 Oct 2023	03 Oct 2023	26 Apr 2023	07 Mar 2023
Machine Hours	22857	22421	21868	21489
Oil Hours	0	500	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	12.6	13.0	12.6	12.7
Base Number (BN)	mg KOH/g	9.9	9.5	8.7	9.8
Oxidation (PA)	%	57	58	53	57



CONTAMINATION

Soot %	%	0.1	0.2	0.1	0.2
Nitration (PA)	%	51	53	48	57
Sulfation (PA)	%	52	53	47	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	2	3	3
Sodium	ppm	2	4	<1	2
Potassium	ppm	1	<1	0	<1



WEAR METALS

Iron	ppm	2	9	<1	3
Copper	ppm	2	2	<1	2
Lead	ppm	<1	0	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	1	<1	<1	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	54	61	55	64
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1103	1102	1022	1109
Magnesium	ppm	885	986	831	904
Zinc	ppm	1073	1289	1065	1183
Phosphorus	ppm	818	1038	874	996
Barium	ppm	0	0	0	2
Boron	ppm	4	5	13	9

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: 10729724
Signed: Wes Davis
Report Date: 09 Nov 2023



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VOLVO GRAPHS

