



CONSTRUCTION EQUIPMENT

SPM620968 LKQ VOLVO L90H 623772 - DIESEL ENGINE



Sample No: VCP423242

Oil Type: DIESEL ENGINE OIL SAE 15W40

Job No: SPM620968 LKQ



SAMPLE INFORMATION

Sample Number	VCP423242	VCP418547	VCP396404	VCP366916
Sample Date	10 Nov 2023	01 May 2023	22 Feb 2023	20 Aug 2022
Machine Hours	10065	9026	8604	6336
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	14.7	12.1	13.9	14.6
Base Number (BN)	mg KOH/g	9.9	9.5	7.6	7.2
Oxidation (PA)	%	53	61	73	99



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.4	0.8	2
Nitration (PA)	%	41	64	86	115
Sulfation (PA)	%	49	54	60	79
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.4	<1.0	<1.0
Silicon	ppm	3	9	7	4
Sodium	ppm	0	2	2	<1
Potassium	ppm	2	2	2	3



WEAR METALS

Iron	ppm	2	10	21	42
Copper	ppm	<1	8	2	3
Lead	ppm	0	0	<1	<1
Tin	ppm	0	<1	<1	1
Aluminum	ppm	2	<1	12	22
Chromium	ppm	0	<1	<1	2
Molybdenum	ppm	53	60	59	46
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	943	1193	1180	1535
Magnesium	ppm	827	874	904	634
Zinc	ppm	1048	1245	1235	1168
Phosphorus	ppm	881	1003	1001	945
Barium	ppm	0	0	0	0
Boron	ppm	0	7	2	19

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: VOLVO8885
Unique No: 10766808
Signed: Wes Davis
Report Date: 01 Dec 2023



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GRAPHS

