



CONSTRUCTION EQUIPMENT

S50401659 LKQ ADELAN VOLVO L90H 626248 - DIESEL ENGINE



Sample No: VCP403999
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: S50401659 LKQ ADELAN



SAMPLE INFORMATION

Sample Number	VCP403999	VCP404250	VCP381147	VCP386525
Sample Date	11 Sep 2023	15 Feb 2023	06 Dec 2022	07 Oct 2022
Machine Hours	2760	1536	1042	624
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
 22099 KNABE ROAD
 CORONA, CA
 US 92883
 Contact: OSCAR DEL CAMPO
 oscar.delcampo@vcesvolvo.com
 T: (951)277-7620
 F: (951)277-4550



OIL CONDITION

Visc @ 100°C	cSt	14.1	13.2	12.5	12.8
Base Number (BN)	mg KOH/g	8.6	10.5	9.8	11.1
Oxidation (PA)	%	88	80	95	81



CONTAMINATION

Soot %	%	0.7	0.3	0.2	0.6
Nitration (PA)	%	81	53	78	63
Sulfation (PA)	%	63	62	68	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	5	10	18
Sodium	ppm	6	0	3	4
Potassium	ppm	5	2	<1	2



WEAR METALS

Iron	ppm	14	8	12	39
Copper	ppm	13	0	4	8
Lead	ppm	<1	0	3	2
Tin	ppm	<1	0	<1	3
Aluminum	ppm	1	2	2	15
Chromium	ppm	<1	0	<1	3
Molybdenum	ppm	33	42	40	37
Nickel	ppm	<1	0	2	<1
Titanium	ppm	17	0	<1	<1
Silver	ppm	0	0	2	1
Manganese	ppm	1	0	<1	5
Vanadium	ppm	<1	0	0	1



ADDITIVES

Calcium	ppm	1551	1658	1639	1530
Magnesium	ppm	782	448	494	571
Zinc	ppm	842	1080	1110	1130
Phosphorus	ppm	719	901	866	956
Barium	ppm	0	<1	0	0
Boron	ppm	66	52	22	40

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: VOLVO4486
Unique No: 10670485
Signed: Wes Davis
Report Date: 29 Sep 2023



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GRAPHS

