



CONSTRUCTION EQUIPMENT

S50401967 LKQ HESPER VOLVO L90H 624462 - DIESEL ENGINE



Sample No: VCP441926
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50401967 LKQ HESPER



SAMPLE INFORMATION

Sample Number	VCP441926	VCP386514	VCP320184	VCP322519
Sample Date	25 Oct 2023	07 Nov 2022	01 Nov 2021	07 Jul 2021
Machine Hours	0	7376	5785	5135
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
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OIL CONDITION

Visc @ 100°C	cSt	15.6	14.6	13.4	13.8
Base Number (BN)	mg KOH/g	6.1	6.4	---	---
Oxidation (PA)	%	109	117	106	124



CONTAMINATION

Soot %	%	1.3	1	0.9	1.2
Nitration (PA)	%	108	110	92	108
Sulfation (PA)	%	78	80	71	81
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	7	8
Sodium	ppm	3	4	3	6
Potassium	ppm	2	2	0	2



WEAR METALS

Iron	ppm	32	25	18	28
Copper	ppm	1	4	2	2
Lead	ppm	2	1	2	5
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	8	11	5	<1
Chromium	ppm	1	1	<1	1
Molybdenum	ppm	27	31	47	43
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	3	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2087	2225	1701	1621
Magnesium	ppm	342	399	523	572
Zinc	ppm	1223	1284	1078	1040
Phosphorus	ppm	1020	1003	917	887
Barium	ppm	0	0	0	0
Boron	ppm	11	18	23	25

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: 10724531
Signed: Sean Felton
Report Date: 03 Nov 2023



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GRAPHS

