



CONSTRUCTION EQUIPMENT

225345 IAA VOLVO L90H 624532 - DIESEL ENGINE



Sample No: VCP434584
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 225345 IAA



SAMPLE INFORMATION

Sample Number	VCP434584	VCP426757	VCP300197	VCP287231
Sample Date	18 Oct 2023	20 Jul 2023	11 Mar 2021	05 Jan 2021
Machine Hours	10420	9934	4975	4621
Oil Hours	500	0	500	600
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.8	14.0	13.2	14.2
Base Number (BN)	mg KOH/g	9.9	10.3	---	---
Oxidation (PA)	%	85	88	92	95

CONTAMINATION

Soot %	%	0.4	0.5	0.4	0.7
Nitration (PA)	%	64	71	69	85
Sulfation (PA)	%	62	64	69	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	11	7	10
Sodium	ppm	3	2	3	3
Potassium	ppm	0	3	0	4

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.

WEAR METALS

Iron	ppm	6	13	9	16
Copper	ppm	0	<1	<1	1
Lead	ppm	0	<1	0	1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	2	2	3	5
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	42	43	41	40
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1513	1914	1722	1830
Magnesium	ppm	519	615	511	564
Zinc	ppm	1065	1441	1128	1003
Phosphorus	ppm	988	1125	979	868
Barium	ppm	4	0	0	0
Boron	ppm	36	37	42	28

Depot: VOLVO1271
Unique No: 10715330
Signed: Wes Davis
Report Date: 31 Oct 2023



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GRAPHS

