



CONSTRUCTION EQUIPMENT

11131 IAA VOLVO L90G 3497 - DIESEL ENGINE



Sample No: VCP440552
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 11131 IAA



SAMPLE INFORMATION

Sample Number	VCP440552	VCP390194	VCP384758	VCP347220
Sample Date	15 Sep 2023	20 Mar 2023	09 Dec 2022	05 Apr 2022
Machine Hours	14261	13884	13563	13040
Oil Hours	0	500	0	0
Oil Changed	N/A	N/A	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

HOFFMAN EQUIPMENT - LIONVILLE
 120 GORDON DRIVE
 LIONVILLE, PA
 US 19341
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OIL CONDITION

Visc @ 100°C	cSt	12.9	13.1	13.2	12.9
Base Number (BN)	mg KOH/g	11.4	10.4	11.6	12.0
Oxidation (PA)	%	86	58	87	87

CONTAMINATION

Soot %	%	0	0.2	0.3	0.4
Nitration (PA)	%	67	54	63	62
Sulfation (PA)	%	68	52	67	66
Glycol	%	NEG	NEG	0.0	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	6	6	8
Sodium	ppm	▲ 313	75	122	140
Potassium	ppm	10	2	1	3

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

WEAR METALS

Iron	ppm	15	9	15	15
Copper	ppm	2	<1	<1	<1
Lead	ppm	1	<1	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	3	4	6	10
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	60	39	41
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1665	1195	1658	1815
Magnesium	ppm	580	1005	505	548
Zinc	ppm	1150	1370	1111	1298
Phosphorus	ppm	973	1112	951	1056
Barium	ppm	0	0	0	0
Boron	ppm	33	6	39	46

Depot: VOLVO8879
Unique No: 10659176
Signed: Jonathan Hester
Report Date: 25 Sep 2023



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VOLVO GRAPHS

