



CONSTRUCTION EQUIPMENT

SW1023773 IAA 8 VOLVO L90H 625149 - DIESEL ENGINE



Sample No: VCP412990
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1023773 IAA 8



SAMPLE INFORMATION

Sample Number	VCP412990	VCP369015	VCP390401	VCP353738
Sample Date	07 Sep 2023	28 Apr 2023	29 Nov 2022	08 Aug 2022
Machine Hours	8295	7653	6675	5963
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	11.8	12.5	14.4	14.9
Base Number (BN)	mg KOH/g	7.4	5.5	10.3	9.8
Oxidation (PA)	%	88	99	85	78



CONTAMINATION

Soot %	%	1.3	1.4	1.2	1.2
Nitration (PA)	%	102	102	98	94
Sulfation (PA)	%	65	68	66	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	13	6	6	5
Sodium	ppm	2	0	2	0
Potassium	ppm	0	<1	<1	<1

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	49	42	26	33
Copper	ppm	3	2	1	1
Lead	ppm	1	0	1	<1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	2	3	4	2
Chromium	ppm	3	2	1	1
Molybdenum	ppm	58	60	58	61
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1348	1202	1444	1268
Magnesium	ppm	865	995	849	911
Zinc	ppm	1258	1318	1316	1335
Phosphorus	ppm	1000	1004	1071	1112
Barium	ppm	0	0	0	0
Boron	ppm	8	3	12	4

Depot: VOLVO6174
Unique No: 10645912
Signed: Wes Davis
Report Date: 15 Sep 2023



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GRAPHS

