



CONSTRUCTION EQUIPMENT

SW1026086 IAA 7 VOLVO L90H 626385 - DIESEL ENGINE



Sample No: VCP441351
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1026086 IAA 7



SAMPLE INFORMATION

Sample Number	VCP441351	VCP416030	VCP409766	VCP379918
Sample Date	01 Nov 2023	15 Aug 2023	16 May 2023	09 Feb 2023
Machine Hours	2969	2405	1820	1170
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.6	14.1	14.2
Base Number (BN)	mg KOH/g	9.3	9.5	9.9	9.7
Oxidation (PA)	%	74	78	75	65



CONTAMINATION

Soot %	%	0.6	0.7	0.7	0.6
Nitration (PA)	%	71	71	73	68
Sulfation (PA)	%	59	60	60	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	8	6	6
Sodium	ppm	1	2	2	2
Potassium	ppm	<1	3	2	<1



WEAR METALS

Iron	ppm	12	19	23	25
Copper	ppm	<1	1	2	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	1	2
Aluminum	ppm	2	2	1	5
Chromium	ppm	<1	1	<1	2
Molybdenum	ppm	53	51	58	62
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1309	1624	1496	1235
Magnesium	ppm	882	683	917	934
Zinc	ppm	1327	1224	1365	1310
Phosphorus	ppm	1032	983	1065	1051
Barium	ppm	0	0	0	<1
Boron	ppm	14	19	12	5

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: VOLVO6174
Unique No: 10736452
Signed: Wes Davis
Report Date: 10 Nov 2023



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GRAPHS

