



CONSTRUCTION EQUIPMENT

17 VOLVO L90H 25192 - DIESEL ENGINE



Sample No: VCP405781
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No: 17



SAMPLE INFORMATION

Sample Number	VCP405781	VCP366257	VCP325017	VCP387262
Sample Date	01 Jul 2023	28 Apr 2023	19 Jan 2023	08 Dec 2022
Machine Hours	10068	9718	9193	8750
Oil Hours	500	400	500	1300
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.3	13.4	13.4
Base Number (BN)	mg KOH/g	9.2	9.4	9.8	8.1
Oxidation (PA)	%	57	63	60	81



CONTAMINATION

Soot %	%	0.3	0.3	0.2	0.6
Nitration (PA)	%	63	70	63	92
Sulfation (PA)	%	51	55	53	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	3	6
Sodium	ppm	2	1	<1	0
Potassium	ppm	0	1	0	2



WEAR METALS

Iron	ppm	7	10	9	23
Copper	ppm	<1	<1	<1	2
Lead	ppm	0	0	0	2
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	4	<1	4	6
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	61	62	64	65
Nickel	ppm	0	0	0	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	1076	1133	1130	1190
Magnesium	ppm	980	1010	1005	927
Zinc	ppm	1269	1323	1309	1266
Phosphorus	ppm	1031	1048	1061	1016
Barium	ppm	0	0	0	0
Boron	ppm	2	1	1	2

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: PLEDOV
Unique No: 10631753
Signed: Don Baldrige
Report Date: 06 Sep 2023



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GRAPHS

