



CONSTRUCTION EQUIPMENT

17 VOLVO L90H 25192 - DIESEL ENGINE



Sample No: VCP406811
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No: 17



SAMPLE INFORMATION

Sample Number	VCP406811	VCP405781	VCP366257	VCP325017
Sample Date	26 Sep 2023	01 Jul 2023	28 Apr 2023	19 Jan 2023
Machine Hours	10471	10068	9718	9193
Oil Hours	500	500	400	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.0	13.3	13.4
Base Number (BN)	mg KOH/g	9.6	9.2	9.4	9.8
Oxidation (PA)	%	56	57	63	60



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.3	0.2
Nitration (PA)	%	57	63	70	63
Sulfation (PA)	%	51	51	55	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	3	3
Sodium	ppm	0	2	1	<1
Potassium	ppm	<1	0	1	0

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 acceptable for the time in service.



WEAR METALS

Iron	ppm	2	7	10	9
Copper	ppm	0	<1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	2	4	<1	4
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	58	61	62	64
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1144	1076	1133	1130
Magnesium	ppm	1047	980	1010	1005
Zinc	ppm	1248	1269	1323	1309
Phosphorus	ppm	1140	1031	1048	1061
Barium	ppm	0	0	0	0
Boron	ppm	<1	2	1	1

Depot: PLEDOV
Unique No: 10790948
Signed: Don Baldrige
Report Date: 19 Dec 2023



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GRAPHS

