



CONSTRUCTION EQUIPMENT

20 VOLVO L90H 25826 - DIESEL ENGINE



Sample No: VCP405776
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No: 20



SAMPLE INFORMATION

Sample Number	VCP405776	VCP324024	VCP387349	VCP387265
Sample Date	13 Jun 2023	11 Apr 2023	22 Feb 2023	12 Dec 2022
Machine Hours	5457	5012	4672	4135
Oil Hours	450	350	500	450
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.9	13.2	12.8
Base Number (BN)	mg KOH/g	9.5	8.4	9.6	9.9
Oxidation (PA)	%	57	54	61	61



CONTAMINATION

Soot %	%	0.2	0.1	0.2	0.2
Nitration (PA)	%	61	53	67	64
Sulfation (PA)	%	50	47	53	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	3	3
Sodium	ppm	2	1	1	1
Potassium	ppm	0	2	0	1



WEAR METALS

Iron	ppm	6	5	8	8
Copper	ppm	<1	0	<1	<1
Lead	ppm	0	<1	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	3	0	3	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	62	60	64	60
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1085	1038	1141	1075
Magnesium	ppm	992	969	1007	940
Zinc	ppm	1270	1284	1314	1285
Phosphorus	ppm	1036	1050	1055	1051
Barium	ppm	0	0	0	0
Boron	ppm	2	3	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: 10631734
Signed: Don Baldrige
Report Date: 06 Sep 2023



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GRAPHS

