



CONSTRUCTION EQUIPMENT

20 VOLVO L90H 25826 - DIESEL ENGINE



Sample No: VCP406778
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No: 20



SAMPLE INFORMATION

Sample Number	VCP406778	VCP405776	VCP324024	VCP387349
Sample Date	01 Sep 2023	13 Jun 2023	11 Apr 2023	22 Feb 2023
Machine Hours	6073	5457	5012	4672
Oil Hours	500	450	350	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

PLEASANT RIVER LUMBER

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OIL CONDITION

Visc @ 100°C	cSt	13.3	12.9	12.9	13.2
Base Number (BN)	mg KOH/g	9.2	9.5	8.4	9.6
Oxidation (PA)	%	65	57	54	61

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.1	0.2
Nitration (PA)	%	74	61	53	67
Sulfation (PA)	%	55	50	47	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	3	3	3
Sodium	ppm	2	2	1	1
Potassium	ppm	2	0	2	0



WEAR METALS

Iron	ppm	11	6	5	8
Copper	ppm	1	<1	0	<1
Lead	ppm	1	0	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	3	0	3
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	75	62	60	64
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1261	1085	1038	1141
Magnesium	ppm	1164	992	969	1007
Zinc	ppm	1486	1270	1284	1314
Phosphorus	ppm	1169	1036	1050	1055
Barium	ppm	12	0	0	0
Boron	ppm	<1	2	3	1

Depot: PLEDOV
Unique No: 10790956
Signed: Don Baldrige
Report Date: 19 Dec 2023

VOLVO GRAPHS

