



CONSTRUCTION EQUIPMENT

20 VOLVO L90H 25826 - DIESEL ENGINE



Sample No: VCP452146
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No: 20



SAMPLE INFORMATION

Sample Number	VCP452146	VCP406778	VCP405776	VCP324024
Sample Date	25 Jan 2024	01 Sep 2023	13 Jun 2023	11 Apr 2023
Machine Hours	7157	6073	5457	5012
Oil Hours	800	500	450	350
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.2	13.3	12.9	12.9
Base Number (BN)	mg KOH/g	7.1	9.2	9.5	8.4
Oxidation (PA)	%	87	65	57	54

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.6	0.3	0.2	0.1
Nitration (PA)	%	96	74	61	53
Sulfation (PA)	%	66	55	50	47
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	3	3
Sodium	ppm	2	2	2	1
Potassium	ppm	0	2	0	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 acceptable for the time in service.

WEAR METALS

Iron	ppm	23	11	6	5
Copper	ppm	1	1	<1	0
Lead	ppm	<1	1	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	2	3	0
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	69	75	62	60
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1

ADDITIVES

Calcium	ppm	1172	1261	1085	1038
Magnesium	ppm	1047	1164	992	969
Zinc	ppm	1370	1486	1270	1284
Phosphorus	ppm	1118	1169	1036	1050
Barium	ppm	0	12	0	0
Boron	ppm	1	<1	2	3

Depot: PLEDOV
Unique No: 10873251
Signed: Don Baldrige
Report Date: 13 Feb 2024

VOLVO GRAPHS

