



CONSTRUCTION EQUIPMENT

12 VOLVO L120H 32363 - DIESEL ENGINE



Sample No: VCP405779
Oil Type: MOBIL DELVAC 1300 SUPER15W40
Job No: 12



SAMPLE INFORMATION

Sample Number	VCP405779	VCP357571	VCP351310	VCP326526
Sample Date	14 Jun 2023	29 Sep 2022	09 May 2022	16 Mar 2022
Machine Hours	15080	14650	14261	13874
Oil Hours	425	400	400	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.7	13.5	13.6
Base Number (BN)	mg KOH/g	9.0	10.3	9.0	9.9
Oxidation (PA)	%	63	67	71	79



CONTAMINATION

Soot %	%	0.3	0.3	0.3	0.4
Nitration (PA)	%	74	75	78	87
Sulfation (PA)	%	54	59	59	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	2	4
Sodium	ppm	2	2	<1	2
Potassium	ppm	<1	0	0	2



WEAR METALS

Iron	ppm	13	10	10	13
Copper	ppm	1	<1	<1	1
Lead	ppm	0	<1	0	2
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	7	4	4	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	62	63	65	57
Nickel	ppm	0	0	0	1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1077	1095	1238	1164
Magnesium	ppm	994	918	1090	968
Zinc	ppm	1284	1223	1419	1185
Phosphorus	ppm	1046	1047	1179	1012
Barium	ppm	0	0	0	0
Boron	ppm	2	4	2	4

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: 10631732
Signed: Don Baldrige
Report Date: 06 Sep 2023



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GRAPHS

