



CONSTRUCTION EQUIPMENT

VOLVO L60H 622810 - DIESEL ENGINE



Sample No: VCP424237
Oil Type: MOBIL DELVAC 1 5W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP424237	VCP424241	VCP424240	VCP365002
Sample Date	20 Feb 2024	10 Dec 2023	17 Sep 2023	17 Jun 2023
Machine Hours	4000	3550	3058	2500
Oil Hours	500	500	500	600
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.5	14.4	14.2	14.1
Base Number (BN)	mg KOH/g	5.7	6.0	6.0	5.5
Oxidation (PA)	%	182	182	183	184

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1.2	1.3	1.2	1.2
Nitration (PA)	%	92	93	92	93
Sulfation (PA)	%	110	110	109	109
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	5	7
Sodium	ppm	2	0	1	<1
Potassium	ppm	2	2	<1	1



WEAR METALS

Iron	ppm	34	42	45	52
Copper	ppm	2	3	3	4
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	6	6	2	7
Chromium	ppm	2	2	2	2
Molybdenum	ppm	50	50	47	66
Nickel	ppm	1	1	1	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	929	1041	1074	1379
Magnesium	ppm	854	948	960	1272
Zinc	ppm	1169	1333	1351	1777
Phosphorus	ppm	883	1086	1110	1453
Barium	ppm	34	12	0	0
Boron	ppm	72	69	56	99

Depot: MAPSTE
Unique No: 10898163
Signed: Don Baldrige
Report Date: 27 Feb 2024



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GRAPHS

