



CONSTRUCTION EQUIPMENT

VOLVO L60H 622840 - DIESEL ENGINE



Sample No: VCP424235
Oil Type: MOBIL DELVAC 1 5W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP424235	VCP424242	VCP424236	VCP364673
Sample Date	10 Dec 2023	15 Oct 2023	13 Aug 2023	11 Feb 2023
Machine Hours	4750	4270	3600	1688
Oil Hours	500	670	600	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.5	13.6	13.7
Base Number (BN)	mg KOH/g	5.8	5.5	5.7	5.7
Oxidation (PA)	%	181	185	185	181

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 %	%	0.3	0.3	0.4	0.2
Nitration (PA)	%	81	84	85	79
Sulfation (PA)	%	106	107	108	105
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	4
Sodium	ppm	0	1	1	<1
Potassium	ppm	2	1	<1	0



WEAR METALS

Iron	ppm	13	13	16	19
Copper	ppm	2	<1	2	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	1	<1	1
Aluminum	ppm	4	5	5	3
Chromium	ppm	1	<1	1	2
Molybdenum	ppm	49	46	49	46
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1011	1023	1079	1016
Magnesium	ppm	943	947	947	877
Zinc	ppm	1301	1392	1282	1251
Phosphorus	ppm	1062	1107	1059	952
Barium	ppm	12	0	0	0
Boron	ppm	81	55	64	82

Depot: MAPSTE
Unique No: 10791731
Signed: Sean Felton
Report Date: 19 Dec 2023



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GRAPHS

