



CONSTRUCTION EQUIPMENT

VOLVO L180H 5740 - DIESEL ENGINE



Sample No: VCP440351
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP440351	VCP432247	VCP429680	VCP433774
Sample Date	22 Mar 2024	24 Jan 2024	08 Dec 2023	16 Nov 2023
Machine Hours	1960	1505	1135	990
Oil Hours	500	500	250	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

WASTE MANAGEMENT - TELFORD
 400 PROGRESS DR
 TELFORD, PA
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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.9	13.1	12.8
Base Number (BN)	mg KOH/g	6.8	7.2	7.8	8.8
Oxidation (PA)	%	38	37	39	62



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	55	51	47	61
Sulfation (PA)	%	45	44	44	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	8
Sodium	ppm	2	0	<1	1
Potassium	ppm	2	0	2	2



WEAR METALS

Iron	ppm	3	1	1	4
Copper	ppm	3	2	9	65
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	<1	1	1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	8	8	13	61
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	2303	2080	1919	1014
Magnesium	ppm	80	125	200	944
Zinc	ppm	1104	1050	1041	1245
Phosphorus	ppm	784	931	810	1016
Barium	ppm	0	0	0	0
Boron	ppm	8	12	17	83

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: WASTEL
Unique No: 10949738
Signed: Wes Davis
Report Date: 27 Mar 2024



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GRAPHS

