



CONSTRUCTION EQUIPMENT

A12083 VOLVO L120H 632331 - DIESEL ENGINE



Sample No: VCP440359
Oil Type: MOBIL 15W40
Job No: A12083



SAMPLE INFORMATION

Sample Number	VCP440359	VCP434127	VCP424775	VCP416384
Sample Date	20 Feb 2024	05 Dec 2023	28 Aug 2023	14 Jun 2023
Machine Hours	12465	12000	11470	10995
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

WASTE MANAGEMENT - TELFORD
 400 PROGRESS DR
 TELFORD, PA
 US 18969-1191
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 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.4	13.1	13.5	12.8
Base Number (BN)	mg KOH/g	6.4	6.3	6.5	5.6
Oxidation (PA)	%	48	55	48	69

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.2	0.2
Nitration (PA)	%	65	70	63	64
Sulfation (PA)	%	53	55	50	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	13	10	11
Sodium	ppm	<1	1	2	<1
Potassium	ppm	2	1	<1	0

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.

WEAR METALS

Iron	ppm	18	19	11	10
Copper	ppm	2	<1	<1	0
Lead	ppm	<1	0	0	<1
Tin	ppm	1	1	<1	<1
Aluminum	ppm	9	7	5	4
Chromium	ppm	1	<1	0	<1
Molybdenum	ppm	12	26	31	72
Nickel	ppm	2	<1	0	0
Titanium	ppm	1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1995	1828	2143	1451
Magnesium	ppm	135	333	284	336
Zinc	ppm	1007	1126	1233	1145
Phosphorus	ppm	838	932	1027	933
Barium	ppm	2	0	0	0
Boron	ppm	6	12	32	256

Depot: WASTEL
Unique No: 10900922
Signed: Wes Davis
Report Date: 29 Feb 2024



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GRAPHS

