



CONSTRUCTION EQUIPMENT

280 VOLVO L90H 623125 - DIESEL ENGINE



Sample No: VCP372843
Oil Type: MOBIL 15W40
Job No: 280



SAMPLE INFORMATION

Sample Number	VCP372843	VCP372835	VCP350459	VCP318242
Sample Date	21 Jul 2023	06 Dec 2022	07 Mar 2022	13 Dec 2021
Machine Hours	11322	10221	9038	8650
Oil Hours	0	675	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
 12345 MAPLEVIEW STREET
 LAKESIDE, CA
 US 92040
 Contact: Mark Stewart
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 T: X
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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.4	13.1	13.1
Base Number (BN)	mg KOH/g	9.1	11.4	11.4	10.6
Oxidation (PA)	%	87	93	90	90



CONTAMINATION

Soot %	%	0.5	0.4	0.2	0.2
Nitration (PA)	%	83	75	63	66
Sulfation (PA)	%	61	66	66	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	6	7
Sodium	ppm	3	0	<1	3
Potassium	ppm	0	<1	<1	2



WEAR METALS

Iron	ppm	8	6	6	8
Copper	ppm	1	<1	<1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	2	3	3
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	44	41	40	40
Nickel	ppm	0	0	0	1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1786	1707	1643	1729
Magnesium	ppm	557	479	490	528
Zinc	ppm	1191	1119	1135	1137
Phosphorus	ppm	969	954	957	951
Barium	ppm	0	0	0	0
Boron	ppm	26	31	45	32

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: VOLVO4488
Unique No: 10579816
Signed: Wes Davis
Report Date: 02 Aug 2023



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GRAPHS

