



CONSTRUCTION EQUIPMENT

900 VOLVO L90H 623 125 - DIESEL ENGINE



Sample No: VCP437492
Oil Type: MOBIL 15W40
Job No: 900



SAMPLE INFORMATION

Sample Number	VCP437492	VCP372843	VCP372835	VCP350459
Sample Date	08 Apr 2024	21 Jul 2023	06 Dec 2022	07 Mar 2022
Machine Hours	12560	11322	10221	9038
Oil Hours	0	0	675	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
 mark.stewart@vcesvolvo.com
 T: X
 F: X

OIL CONDITION

Visc @ 100°C	cSt	11.8	13.3	13.4	13.1
Base Number (BN)	mg KOH/g	9.7	9.1	11.4	11.4
Oxidation (PA)	%	83	87	93	90

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.5	0.4	0.2
Nitration (PA)	%	64	83	75	63
Sulfation (PA)	%	61	61	66	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	4	6
Sodium	ppm	8	3	0	<1
Potassium	ppm	1	0	<1	<1

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	6	8	6	6
Copper	ppm	<1	1	<1	<1
Lead	ppm	<1	0	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	2	2	3
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	36	44	41	40
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	1533	1786	1707	1643
Magnesium	ppm	451	557	479	490
Zinc	ppm	987	1191	1119	1135
Phosphorus	ppm	861	969	954	957
Barium	ppm	0	0	0	0
Boron	ppm	30	26	31	45

Depot: VOLVO4488
Unique No: 10981660
Signed: Wes Davis
Report Date: 19 Apr 2024



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VOLVO GRAPHS

