



CONSTRUCTION EQUIPMENT

S50402111 LKQ MONROV VOLVO L90H 625630 - DIESEL ENGINE



Sample No: VCP412875
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: S50402111 LKQ MONROV



SAMPLE INFORMATION

Sample Number	VCP412875	VCP423036	VCP402066	VCP386512
Sample Date	10 Nov 2023	12 Jul 2023	16 Mar 2023	11 Nov 2022
Machine Hours	0	3106	2561	2008
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.6	12.9	13.1
Base Number (BN)	mg KOH/g	8.8	9.8	10.3	11.7
Oxidation (PA)	%	88	78	82	87

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.3	0.4	0.4
Nitration (PA)	%	72	58	63	64
Sulfation (PA)	%	61	59	62	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	4	4
Sodium	ppm	0	2	<1	0
Potassium	ppm	2	<1	0	2

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	7	9	11	10
Copper	ppm	4	1	<1	2
Lead	ppm	<1	0	0	<1
Tin	ppm	2	<1	<1	<1
Aluminum	ppm	2	2	4	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	41	42	44
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1676	1807	1803	1766
Magnesium	ppm	508	523	554	485
Zinc	ppm	1143	1144	1227	1166
Phosphorus	ppm	996	942	998	972
Barium	ppm	12	0	0	2
Boron	ppm	32	34	37	38

Depot: VOLVO4486
Unique No: 10790350
Signed: Wes Davis
Report Date: 15 Dec 2023



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GRAPHS

