



CONSTRUCTION EQUIPMENT

9407 MES DERWOOD VOLVO L90H 623996 - DIESEL ENGINE



Sample No: VCP422864
Oil Type: CHEVRON 15W40
Job No: 9407 MES DERWOOD



SAMPLE INFORMATION

Sample Number	VCP422864	VCP404110	VCP390020	VCP341123
Sample Date	02 Aug 2023	04 May 2023	22 Nov 2022	27 Jun 2022
Machine Hours	12116	11613	10595	10114
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.7	13.9	14.2	14.7
Base Number (BN)	mg KOH/g	7.1	5.7	9.1	6.3
Oxidation (PA)	%	71	74	76	94



CONTAMINATION

Soot %	%	0.4	0.5	0.5	0.9
Nitration (PA)	%	68	72	78	98
Sulfation (PA)	%	64	62	69	75
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	10	13
Sodium	ppm	<1	2	<1	2
Potassium	ppm	0	3	4	0



WEAR METALS

Iron	ppm	9	15	11	29
Copper	ppm	0	<1	<1	3
Lead	ppm	0	<1	<1	6
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	5	10	7	11
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	106	99	119	120
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	3	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1593	1708	1547	1619
Magnesium	ppm	476	487	498	631
Zinc	ppm	1424	1425	1141	944
Phosphorus	ppm	1157	1097	934	700
Barium	ppm	0	0	0	0
Boron	ppm	309	222	281	111

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: VOLVO0150
Unique No: 10586910
Signed: Wes Davis
Report Date: 04 Aug 2023



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GRAPHS

