



CONSTRUCTION EQUIPMENT

X58917 VOLVO L120H 633249 - DIESEL ENGINE



Sample No: VCP425346
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: X58917



SAMPLE INFORMATION

Sample Number	VCP425346	VCP413371	VCP367480	VCP367214
Sample Date	27 Nov 2023	28 Aug 2023	02 May 2023	12 Jan 2023
Machine Hours	2012	1518	955	411
Oil Hours	0	0	0	411
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.7	13.4	12.7
Base Number (BN)	mg KOH/g	10.2	10.3	9.2	9.9
Oxidation (PA)	%	84	85	77	72

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1	1	0.6	0.4
Nitration (PA)	%	69	72	60	57
Sulfation (PA)	%	65	65	58	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	7	15
Sodium	ppm	3	<1	2	2
Potassium	ppm	0	<1	1	2

WEAR METALS

Iron	ppm	20	22	21	33
Copper	ppm	2	3	4	10
Lead	ppm	0	<1	0	2
Tin	ppm	1	2	1	2
Aluminum	ppm	9	9	19	81
Chromium	ppm	<1	<1	1	4
Molybdenum	ppm	41	41	40	37
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	2
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1818	1628	1611	1517
Magnesium	ppm	526	482	519	569
Zinc	ppm	1157	1089	1142	1085
Phosphorus	ppm	986	907	906	939
Barium	ppm	0	0	0	19
Boron	ppm	31	17	30	46

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: SCOSAI
Unique No: 10765830
Signed: Wes Davis
Report Date: 01 Dec 2023



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GRAPHS

