



CONSTRUCTION EQUIPMENT

9123 VOLVO L70H 622302 - DIESEL ENGINE



Sample No: VCP412711
Oil Type: CHEVRON 15W40
Job No: 9123



SAMPLE INFORMATION

Sample Number	VCP412711	VCP358604	VCP317743	VCP292235
Sample Date	30 Aug 2023	06 Aug 2022	19 Aug 2021	21 Apr 2021
Machine Hours	8734	7567	6335	5710
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	13.5	13.8	13.0	13.8
Base Number (BN)	mg KOH/g	6.0	7.5	---	---
Oxidation (PA)	%	78	56	73	72



CONTAMINATION

Soot %	%	0.6	0.4	0.2	0.2
Nitration (PA)	%	85	83	73	73
Sulfation (PA)	%	66	61	66	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	6	5	5
Sodium	ppm	2	<1	3	2
Potassium	ppm	1	2	<1	0



WEAR METALS

Iron	ppm	24	14	7	8
Copper	ppm	2	2	<1	<1
Lead	ppm	2	<1	0	<1
Tin	ppm	<1	<1	0	0
Aluminum	ppm	9	8	2	6
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	113	28	116	105
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	<1	4
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1788	2355	1538	1646
Magnesium	ppm	519	151	655	707
Zinc	ppm	1030	1100	826	845
Phosphorus	ppm	823	910	715	740
Barium	ppm	0	0	0	0
Boron	ppm	168	28	285	250

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: RELMIL
Unique No: 10634938
Signed: Wes Davis
Report Date: 08 Sep 2023



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GRAPHS

