



CONSTRUCTION EQUIPMENT

A11488 VOLVO L70H 622321 - DIESEL ENGINE



Sample No: VCP434160
Oil Type: MOBIL 15W40
Job No: A11488



SAMPLE INFORMATION

Sample Number	VCP434160	VCP294654	VCP287934	VCP235626
Sample Date	17 Nov 2023	23 Nov 2021	06 Oct 2020	22 Jan 2019
Machine Hours	3525	2985	2460	1900
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.3	12.6	13.1	13.51
Base Number (BN)	mg KOH/g	9.0	9.7	---	---
Oxidation (PA)	%	78	78	71	85

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.7
Nitration (PA)	%	72	69	59	83
Sulfation (PA)	%	57	60	58	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.8	<1.0	<1.0	<1.0
Silicon	ppm	10	7	7	8
Sodium	ppm	3	0	<1	5
Potassium	ppm	<1	<1	1	1



WEAR METALS

Iron	ppm	14	15	14	32
Copper	ppm	2	2	2	4
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	27	19	16	16
Chromium	ppm	2	2	1	2
Molybdenum	ppm	42	55	32	43
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1555	1775	1535	1706
Magnesium	ppm	482	531	482	543
Zinc	ppm	1027	1019	962	895
Phosphorus	ppm	870	926	823	767
Barium	ppm	0	0	0	0
Boron	ppm	52	74	72	30

Depot: KCCIVY
Unique No: 10764788
Signed: Wes Davis
Report Date: 01 Dec 2023



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GRAPHS

