



CONSTRUCTION EQUIPMENT

A10886 VOLVO L70H 622711 - DIESEL ENGINE



Sample No: VCP413724
Oil Type: MOBIL 15W40
Job No: A10886



SAMPLE INFORMATION

Sample Number	VCP413724	VCP399870	VCP378632	VCP348032
Sample Date	11 Aug 2023	08 Mar 2023	02 Aug 2022	25 Jan 2022
Machine Hours	4620	4425	4000	3380
Oil Hours	250	500	250	250
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.5	12.7	12.9	12.5
Base Number (BN)	mg KOH/g	7.6	9.0	11.6	11.0
Oxidation (PA)	%	40	63	84	77



CONTAMINATION

Soot %	%	0.1	0.2	0.3	0.3
Nitration (PA)	%	54	63	63	62
Sulfation (PA)	%	43	53	63	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	12	8
Sodium	ppm	0	2	2	<1
Potassium	ppm	2	<1	0	<1



WEAR METALS

Iron	ppm	7	6	13	13
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	13	4	11	8
Chromium	ppm	1	<1	2	<1
Molybdenum	ppm	17	30	50	50
Nickel	ppm	2	0	<1	0
Titanium	ppm	<1	<1	<1	5
Silver	ppm	2	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	2103	1834	1602	1811
Magnesium	ppm	195	338	477	528
Zinc	ppm	1096	1099	1035	1069
Phosphorus	ppm	912	874	843	938
Barium	ppm	0	0	<1	0
Boron	ppm	11	31	49	54

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 acceptable for the time in service.

Depot: JAAPHI
Unique No: 10617818
Signed: Sean Felton
Report Date: 25 Aug 2023



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GRAPHS

