

CONSTRUCTION EQUIPMENT VOLVO L120H 764 (S/N 632247) - DIESEL ENGINE



VCP366444 **Sample No:**

Oil Type: CITGO CITGARD 700 15W40

Job No:

VOLVO SAMDI FIL	NFORMATION				
Sample Number	NI UNITA I IUN	VCP366444	VCP223891	VCP230232	VCP230234
Sample Date		14 Dec 2023	13 Jan 2022		06 Jan 2020
Machine Hours		14 Dec 2023	3535	26 Apr 2021	
		0	500	3077	2018
Oil Hours				500	
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL	NORMAL
VOLVO					
OIL CONDI	TION				
Visc @ 100°C	cSt	■13.8	□14.2	14.1	□14.2
Base Number (BN)	mg KOH/g	■9.6	■9.6		
Oxidation (PA)	%	59	80	63	59
CONTAMI	NATION				
_			NEC	NEC	NEC
Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.5	□0.2	1	□0.9
Nitration (PA)	%	55	86	68	63
Sulfation (PA)	%	53	66	58	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■8	4	■3	■8
Sodium	ppm	2	2	1	3
Potassium	ppm	2	0	< 1	0
WEAR ME	TALS				
Iron	ppm	□28	<u></u> 4	2 0	2 9
Copper	ppm	5	12	1 4	1 6
Lead	ppm	■<1	2	1	2
Tin	ppm	1	= <1	2	0
Aluminum		<u> </u>	2	7	9
Chromium	ppm	2	= <1	1	2
	ppm	■60	38	6 2	6 0
Molybdenum Nickel	ppm	_	0	_	<1
	ppm	0		0	
Titanium	ppm	<1	<1	0	<1
Silver	ppm	□ <1	<1	0	<1
Manganese	ppm	= <1	<1	<1 2	<1
Vanadium	ppm	0	0	0	0
VOLVO					
ADDITIVE	5				
Calcium	ppm	1055	1748	1058	1106
Magnesium	ppm	■908	538	976	1026
Zinc	ppm	■ 1237	882	■ 1282	■1190
Phosphorus	ppm	899	1 769	1045	992
Barium	ppm	1 5	0	0	0
- Danium	PPIII				



YELLOWSTONE COUNTY ROAD & BRIDGE

3321 KING AVE E BILLINGS, MT US 59101 Contact: GREG FISHER gfisher@yellowstonecountymt.gov T: (406)256-6812 F:

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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: YELBIL **Unique No:** 10882812 Signed: Sean Felton Report Date: 16 Feb 2024

Contact/Location: GREG FISHER - YELBIL

ppm

Boron



CONSTRUCTION EQUIPMENT





