



CONSTRUCTION EQUIPMENT

VOLVO L90F 28951 - DIESEL ENGINE



Sample No: VCP421788

Oil Type: DIESEL ENGINE OIL SAE 15W40

Job No:



SAMPLE INFORMATION

Sample Number	VCP421788	VCP150350	VCP150327	VCE210299
Sample Date	18 Mar 2024	22 Apr 2020	20 Aug 2019	08 Feb 2018
Machine Hours	9571	7002	0	5463
Oil Hours	248	472	0	553
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

GLOVER CONSTRUCTION CO. INC.

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PLEASANT HILL, NC

US 27866

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OIL CONDITION

Visc @ 100°C	cSt	14.2	13.3	13.7	13.99
Base Number (BN)	mg KOH/g	9.1	---	---	---
Oxidation (PA)	%	50	47	57	52

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.5	0.3
Nitration (PA)	%	47	43	65	58
Sulfation (PA)	%	47	48	53	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	32	4	4
Sodium	ppm	1	5	5	4
Potassium	ppm	<1	10	6	8



WEAR METALS

Iron	ppm	8	21	12	14
Copper	ppm	1	6	6	2
Lead	ppm	0	1	0	<1
Tin	ppm	2	0	0	0
Aluminum	ppm	4	4	3	2
Chromium	ppm	<1	5	<1	<1
Molybdenum	ppm	60	49	50	58
Nickel	ppm	1	<1	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	2	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1183	1474	1239	1384
Magnesium	ppm	893	910	835	1045
Zinc	ppm	1222	1179	1134	1146
Phosphorus	ppm	1012	1039	1029	1008
Barium	ppm	0	0	0	0
Boron	ppm	12	11	9	10

Depot: GLOPLE

Unique No: 11008790

Signed: Wes Davis

Report Date: 04 May 2024



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VOLVO GRAPHS

