



CONSTRUCTION EQUIPMENT

VOLVO L120F 66586 - DIESEL ENGINE



Sample No: VCP409668

Oil Type: GULF SUPER DUTY + 15W40

Job No:



SAMPLE INFORMATION

Sample Number	VCP409668	VCP409665	VCP409676	VCP371838
Sample Date	05 Nov 2023	06 Sep 2023	25 Jul 2023	31 May 2023
Machine Hours	29393	28946	28662	0
Oil Hours	350	300	300	300
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

WE CARE ORGANICS

800 CO CO LN
COLUMBUS, NJ
US 08022
Contact: Owen Sheehan
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OIL CONDITION

Visc @ 100°C	cSt	14.3	13.4	13.8	13.9
Base Number (BN)	mg KOH/g	6.8	8.5	6.9	7.4
Oxidation (PA)	%	62	67	57	57



CONTAMINATION

Soot %	%	0.5	0.4	0.4	0.3
Nitration (PA)	%	80	68	73	72
Sulfation (PA)	%	55	56	52	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	13	12	11	9
Sodium	ppm	2	3	2	0
Potassium	ppm	<1	0	2	2



WEAR METALS

Iron	ppm	5	5	5	4
Copper	ppm	<1	0	<1	<1
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	3	2	1	<1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	88	59	82	89
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	2187	2020	2158	2228
Magnesium	ppm	113	393	134	103
Zinc	ppm	1404	1183	1253	1214
Phosphorus	ppm	1114	992	993	1026
Barium	ppm	0	0	0	0
Boron	ppm	47	46	51	73

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: SYNCOL
Unique No: 10736440
Signed: Wes Davis
Report Date: 10 Nov 2023



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GRAPHS

