



CONSTRUCTION EQUIPMENT

3 VOLVO L220F 6263 - DIESEL ENGINE



Sample No: VC367068
Oil Type: GOLF 15W40
Job No: 3



SAMPLE INFORMATION

Sample Number	VC367068	VC457210	VCE74487	VCE73954
Sample Date	23 Jan 2024	13 Sep 2023	06 Apr 2023	08 Dec 2022
Machine Hours	6847	6374	5614	5101
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	13.9	13.1	12.0
Base Number (BN)	mg KOH/g	7.2	6.3	7.8	9.1
Oxidation (PA)	%	43	55	52	69

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.5	0.3	0.7
Nitration (PA)	%	61	77	53	71
Sulfation (PA)	%	49	52	46	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	5	3	3
Sodium	ppm	0	5	<1	0
Potassium	ppm	2	5	<1	1

WEAR METALS

Iron	ppm	6	7	8	14
Copper	ppm	1	8	<1	2
Lead	ppm	2	<1	1	2
Tin	ppm	1	<1	1	2
Aluminum	ppm	2	1	<1	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	14	32	60	62
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	15	0	<1
Silver	ppm	0	0	0	1
Manganese	ppm	0	1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	2166	1552	1149	1825
Magnesium	ppm	36	785	748	363
Zinc	ppm	1046	842	1154	1207
Phosphorus	ppm	809	716	965	997
Barium	ppm	0	0	2	0
Boron	ppm	5	86	13	59

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: WHIBRI
Unique No: 10855875
Signed: Wes Davis
Report Date: 31 Jan 2024



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VOLVO GRAPHS

