



CONSTRUCTION EQUIPMENT

VOLVO L220F 6263 - DIESEL ENGINE



Sample No: VC457210
Oil Type: GULF 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VC457210	VCE74487	VCE73954	VC077471
Sample Date	13 Sep 2023	06 Apr 2023	08 Dec 2022	11 Jul 2022
Machine Hours	6374	5614	5101	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.9	13.1	12.0	12.5
Base Number (BN)	mg KOH/g	6.3	7.8	9.1	9.5
Oxidation (PA)	%	55	52	69	62



CONTAMINATION

Soot %	%	0.5	0.3	0.7	0.3
Nitration (PA)	%	77	53	71	54
Sulfation (PA)	%	52	46	60	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	4.6
Silicon	ppm	5	3	3	3
Sodium	ppm	5	<1	0	<1
Potassium	ppm	5	<1	1	<1



WEAR METALS

Iron	ppm	7	8	14	4
Copper	ppm	8	<1	2	3
Lead	ppm	<1	1	2	1
Tin	ppm	<1	1	2	1
Aluminum	ppm	1	<1	3	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	32	60	62	60
Nickel	ppm	<1	0	0	0
Titanium	ppm	15	0	<1	<1
Silver	ppm	0	0	1	<1
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1552	1149	1825	1733
Magnesium	ppm	785	748	363	344
Zinc	ppm	842	1154	1207	1174
Phosphorus	ppm	716	965	997	986
Barium	ppm	0	2	0	0
Boron	ppm	86	13	59	105

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: 10670484
Signed: Wes Davis
Report Date: 29 Sep 2023



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GRAPHS

