



CONSTRUCTION EQUIPMENT

X58880 VOLVO L220H 003442 - DIESEL ENGINE



Sample No: VCP426047
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: X58880



SAMPLE INFORMATION

Sample Number	VCP426047	VCP426051	VCP367482	VCP384340
Sample Date	15 Nov 2023	21 Sep 2023	28 Apr 2023	30 Mar 2023
Machine Hours	4799	4161	2537	2097
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.9	12.9	12.9
Base Number (BN)	mg KOH/g	9.7	9.2	8.4	9.5
Oxidation (PA)	%	83	79	78	83



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.1	0.2
Nitration (PA)	%	57	53	49	62
Sulfation (PA)	%	61	60	57	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	6
Sodium	ppm	0	5	1	2
Potassium	ppm	3	1	0	2



WEAR METALS

Iron	ppm	6	6	5	6
Copper	ppm	1	2	1	10
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	42	43	44	40
Nickel	ppm	1	<1	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1665	1791	1782	1870
Magnesium	ppm	497	542	565	530
Zinc	ppm	1118	1175	1242	1254
Phosphorus	ppm	917	993	988	1008
Barium	ppm	0	0	0	0
Boron	ppm	36	32	44	35

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: SCOSAI
Unique No: 10751273
Signed: Wes Davis
Report Date: 21 Nov 2023



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GRAPHS

