



CONSTRUCTION EQUIPMENT

VOLVO L220H 3347 - DIESEL ENGINE



Sample No: VCP415087
Oil Type: SHELL ROTELLA T3 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP415087	VCP420406	VCP407027	VCP408056
Sample Date	01 Sep 2023	22 Jun 2023	07 Jun 2023	22 May 2023
Machine Hours	9226	8924	8640	8328
Oil Hours	302	284	312	318
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

COVANTA ENERGY
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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.3	13.2	13.3
Base Number (BN)	mg KOH/g	8.1	8.3	8.3	8.7
Oxidation (PA)	%	53	55	56	60

CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	52	51	54	50
Sulfation (PA)	%	51	52	52	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	6	6	9
Sodium	ppm	<1	3	1	1
Potassium	ppm	<1	3	1	2

WEAR METALS

Iron	ppm	5	2	3	4
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	4	0	0	<1
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	52	53	59	60
Nickel	ppm	2	<1	1	3
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1996	1905	1795	1829
Magnesium	ppm	335	335	351	407
Zinc	ppm	1231	1236	1190	1254
Phosphorus	ppm	1027	1013	997	1006
Barium	ppm	0	<1	0	0
Boron	ppm	70	71	67	102

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: COVWES
Unique No: 10636131
Signed: Wes Davis
Report Date: 11 Sep 2023



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GRAPHS

