



CONSTRUCTION EQUIPMENT

VOLVO L220H 3347 - DIESEL ENGINE



Sample No: VCP420406
Oil Type: SHELL ROTELLA T3 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP420406	VCP407027	VCP408056	VCP408064
Sample Date	22 Jun 2023	07 Jun 2023	22 May 2023	24 Apr 2023
Machine Hours	8924	8640	8328	8016
Oil Hours	284	312	318	305
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	13.2	13.3	13.1
Base Number (BN)	mg KOH/g	8.3	8.3	8.7	8.0
Oxidation (PA)	%	55	56	60	57

CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	51	54	50	45
Sulfation (PA)	%	52	52	53	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	9	0
Sodium	ppm	3	1	1	2
Potassium	ppm	3	1	2	<1

WEAR METALS

Iron	ppm	2	3	4	2
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	0	0	<1	<1
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	53	59	60	61
Nickel	ppm	<1	1	3	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1905	1795	1829	1890
Magnesium	ppm	335	351	407	435
Zinc	ppm	1236	1190	1254	1305
Phosphorus	ppm	1013	997	1006	1098
Barium	ppm	<1	0	0	0
Boron	ppm	71	67	102	90

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: 10535835
Signed: Wes Davis
Report Date: 30 Jun 2023



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GRAPHS

