



CONSTRUCTION EQUIPMENT

VOLVO L90H 627063 - DIESEL ENGINE



Sample No: VCP440508
Oil Type: SHELL ROTELLA T3 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP440508	VCP441735	VCP432424	---
Sample Date	15 Apr 2024	19 Feb 2024	17 Jan 2024	---
Machine Hours	609	272	94	---
Oil Hours	337	178	94	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

COVANTA ENERGY
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 WEST WAREHAM, MA
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OIL CONDITION

Visc @ 100°C	cSt	13.7	13.7	12.4	---
Base Number (BN)	mg KOH/g	6.8	7.9	8.7	---
Oxidation (PA)	%	43	42	68	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.1	0.1	---
Nitration (PA)	%	59	50	41	---
Sulfation (PA)	%	48	46	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	6	20	---
Sodium	ppm	0	0	8	---
Potassium	ppm	1	3	23	---

Diagnosis
 Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.

WEAR METALS

Iron	ppm	7	7	17	---
Copper	ppm	8	2	14	---
Lead	ppm	0	0	1	---
Tin	ppm	0	<1	2	---
Aluminum	ppm	2	5	48	---
Chromium	ppm	0	1	5	---
Molybdenum	ppm	16	15	39	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	0	<1	4	---
Vanadium	ppm	0	0	<1	---

ADDITIVES

Calcium	ppm	2540	1988	1553	---
Magnesium	ppm	95	118	598	---
Zinc	ppm	1268	989	1174	---
Phosphorus	ppm	1063	887	1050	---
Barium	ppm	0	<1	3	---
Boron	ppm	14	24	72	---

Depot: COVWES
Unique No: 10994117
Signed: Wes Davis
Report Date: 25 Apr 2024



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GRAPHS

