



CONSTRUCTION EQUIPMENT

11040 VOLVO L90H 624901 - DIESEL ENGINE



Sample No: VCP441839
Oil Type: MOBIL 15W40
Job No: 11040



SAMPLE INFORMATION

Sample Number	VCP441839	VCP356330	VCP365723	VCP361455
Sample Date	11 Sep 2023	07 Mar 2023	22 Nov 2022	14 Jul 2022
Machine Hours	8453	7635	7189	6680
Oil Hours	0	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

WASTE MGMT GROWS LANDFILL
 1121 BORDENTOWN ROAD
 MORRISVILLE, PA
 US 19067
 Contact: JIM

OIL CONDITION

Visc @ 100°C	cSt	13.6	12.8	13.2	12.8
Base Number (BN)	mg KOH/g	6.5	10.8	11.5	10.8
Oxidation (PA)	%	51	80	85	81

T: (215)736-9490
 F: (215)736-0662

CONTAMINATION

Soot %	%	0.4	0.3	0.4	0.3
Nitration (PA)	%	68	57	67	67
Sulfation (PA)	%	53	61	65	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	14	8	13	11
Sodium	ppm	2	3	2	0
Potassium	ppm	<1	0	0	1

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.

WEAR METALS

Iron	ppm	9	6	9	8
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	10	4	8	9
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	18	40	45	49
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	2336	1653	1709	1638
Magnesium	ppm	249	504	536	499
Zinc	ppm	1238	1119	1160	1092
Phosphorus	ppm	1018	888	927	908
Barium	ppm	0	0	0	0
Boron	ppm	5	45	35	46

Depot: WASMOR
Unique No: 10659614
Signed: Wes Davis
Report Date: 22 Sep 2023



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GRAPHS

