



CONSTRUCTION EQUIPMENT

A11101 VOLVO L90G 617604 - DIESEL ENGINE



Sample No: VCP425914
Oil Type: MOBIL 15W40
Job No: A11101



SAMPLE INFORMATION

Sample Number	VCP425914	VCP422786	VCP365689	VCP378636
Sample Date	19 Sep 2023	18 May 2023	15 Nov 2022	27 Jul 2022
Machine Hours	11310	18870	10050	9695
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

IAA - INSURANCE AUTO AUCTIONS - BRIDGEPORT
 396 E SCHUYLKILL RIVER RD
 BRIDGEPORT, PA
 US 19405
 Contact: DOUG

OIL CONDITION

Visc @ 100°C	cSt	13.3	13.7	12.8	12.7
Base Number (BN)	mg KOH/g	6.6	7.1	10.3	10.5
Oxidation (PA)	%	46	72	73	86

T:
F:

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 acceptable for the time in service.

CONTAMINATION

Soot %	%	0.7	1.1	0.6	0.7
Nitration (PA)	%	69	91	78	89
Sulfation (PA)	%	52	62	60	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	6	7
Sodium	ppm	19	13	8	6
Potassium	ppm	14	8	4	2

WEAR METALS

Iron	ppm	29	48	33	45
Copper	ppm	3	1	<1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	11	9	9	11
Chromium	ppm	2	2	2	2
Molybdenum	ppm	21	52	35	49
Nickel	ppm	<1	2	1	2
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	2456	1550	1875	1645
Magnesium	ppm	223	775	402	501
Zinc	ppm	1326	1294	1184	1067
Phosphorus	ppm	1090	962	931	862
Barium	ppm	0	0	0	<1
Boron	ppm	0	3	23	35

Depot: IAABRI
Unique No: 10672663
Signed: Don Baldrige
Report Date: 03 Oct 2023



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GRAPHS

