



CONSTRUCTION EQUIPMENT

A12509 VOLVO L90G 617604 - DIESEL ENGINE



Sample No: VCP439207
Oil Type: MOBIL 15W40
Job No: A12509



SAMPLE INFORMATION

Sample Number	VCP439207	VCP430916	VCP425914	VCP422786
Sample Date	26 Apr 2024	29 Dec 2023	19 Sep 2023	18 May 2023
Machine Hours	12265	11785	11310	18870
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	MARGINAL	NORMAL	NORMAL

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

OIL CONDITION

Visc @ 100°C	cSt	12.9	12.4	13.3	13.7
Base Number (BN)	mg KOH/g	6.7	6.4	6.6	7.1
Oxidation (PA)	%	43	45	46	72

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 suitable for further service.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.6	0.6	0.7	1.1
Nitration (PA)	%	65	64	69	91
Sulfation (PA)	%	51	51	52	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.7	<1.0	<1.0
Silicon	ppm	5	4	6	5
Sodium	ppm	14	22	19	13
Potassium	ppm	11	13	14	8

WEAR METALS

Iron	ppm	16	17	29	48
Copper	ppm	1	<1	3	1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	6	6	11	9
Chromium	ppm	1	1	2	2
Molybdenum	ppm	10	20	21	52
Nickel	ppm	<1	<1	<1	2
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	2169	1828	2456	1550
Magnesium	ppm	97	255	223	775
Zinc	ppm	1076	1086	1326	1294
Phosphorus	ppm	964	905	1090	962
Barium	ppm	0	0	0	0
Boron	ppm	4	6	0	3

Depot: IAABRI
Unique No: 11032254
Signed: Jonathan Hester
Report Date: 20 May 2024



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VOLVO GRAPHS

