



CONSTRUCTION EQUIPMENT

W02007280 VOLVO L90H 624605 - DIESEL ENGINE



Sample No: VCP418051
Oil Type: MOBIL 15W40
Job No: W02007280



SAMPLE INFORMATION

Sample Number	VCP418051	VCP397822	VCP376462	VCP379199
Sample Date	21 Jun 2023	10 Feb 2023	07 Oct 2022	20 May 2022
Machine Hours	6500	6039	5563	4963
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



IAA - INSURANCE AUTO AUCTIONS - CULPEPER
 15201 REVIEW RD
 CULPEPER, VA
 US 22701
 Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	13.5	13.9	13.7	12.7
Base Number (BN)	mg KOH/g	8.0	7.6	10.2	9.5
Oxidation (PA)	%	86	83	99	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 suitable for further service.



CONTAMINATION

Soot %	%	0.8	0.7	1	0.5
Nitration (PA)	%	93	91	96	80
Sulfation (PA)	%	70	67	71	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	11	10	6
Sodium	ppm	2	1	1	2
Potassium	ppm	1	2	2	1



WEAR METALS

Iron	ppm	8	15	15	10
Copper	ppm	<1	1	1	<1
Lead	ppm	<1	4	<1	1
Tin	ppm	0	<1	<1	1
Aluminum	ppm	<1	3	4	2
Chromium	ppm	0	1	1	<1
Molybdenum	ppm	83	116	49	50
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1120	1683	1708	1713
Magnesium	ppm	437	623	564	530
Zinc	ppm	586	953	1207	1131
Phosphorus	ppm	489	768	1005	956
Barium	ppm	0	0	0	0
Boron	ppm	131	207	25	42

Depot: IAACUL
Unique No: 10536783
Signed: Doug Bogart
Report Date: 02 Jul 2023



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VOLVO GRAPHS

