



CONSTRUCTION EQUIPMENT

S50402146 VOLVO L90H 625930 - DIESEL ENGINE



Sample No: VCP443127
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: S50402146



SAMPLE INFORMATION

Sample Number	VCP443127	VCP399634	VCP381149	VCP385207
Sample Date	01 Dec 2023	11 Apr 2023	11 Jan 2023	30 Sep 2022
Machine Hours	10000	2379	1887	1470
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

IAA - INSURANCE AUTO AUCTIONS - WESTCHESTER VC
2 WESTBROOK CORPORATE CENTER STE. 5
WESTCHESTER, IL
US 60154
Contact: BILLY BUTLER



OIL CONDITION

Visc @ 100°C	cSt	12.4	13.7	13.3	13.5
Base Number (BN)	mg KOH/g	10.2	10.8	10.5	11.7
Oxidation (PA)	%	81	88	82	93

T: (404)275-6868
F:

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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 %	%	0.2	0.7	0.3	0.2
Nitration (PA)	%	50	73	59	68
Sulfation (PA)	%	61	66	62	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	1.6	<1.0	<1.0	<1.0
Silicon	ppm	8	7	5	8
Sodium	ppm	<1	5	2	2
Potassium	ppm	2	<1	0	3



WEAR METALS

Iron	ppm	5	49	42	6
Copper	ppm	<1	<1	<1	1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	2	<1	4	5
Chromium	ppm	<1	2	2	<1
Molybdenum	ppm	41	43	40	47
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1630	1863	1654	1705
Magnesium	ppm	496	546	493	499
Zinc	ppm	1099	1239	1068	1118
Phosphorus	ppm	955	997	884	920
Barium	ppm	12	0	0	0
Boron	ppm	45	34	46	32

Depot: INSWES
Unique No: 10790347
Signed: Wes Davis
Report Date: 20 Dec 2023



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GRAPHS

