



CONSTRUCTION EQUIPMENT

S50402245 VOLVO L90H 625460 - DIESEL ENGINE



Sample No: VCP434535
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50402245



SAMPLE INFORMATION

Sample Number	VCP434535	VCP400413	VCP381151	VCP337825
Sample Date	05 Dec 2023	23 Feb 2023	04 Jan 2023	27 Jun 2022
Machine Hours	6500	4985	6471	3011
Oil Hours	0	0	0	534
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	12.8	13.2	12.8	13.6
Base Number (BN)	mg KOH/g	10.3	10.2	10.5	11.2
Oxidation (PA)	%	83	88	79	84

T: (404)275-6868
 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 %	%	0.5	0.2	0.2	0.3
Nitration (PA)	%	58	63	53	58
Sulfation (PA)	%	62	63	61	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	9	6	4
Sodium	ppm	0	3	1	2
Potassium	ppm	2	<1	1	0

WEAR METALS

Iron	ppm	7	11	5	8
Copper	ppm	2	2	<1	<1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	2	3	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	39	41	40
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1682	1684	1688	1647
Magnesium	ppm	515	487	481	487
Zinc	ppm	1114	1091	1128	1139
Phosphorus	ppm	990	869	965	901
Barium	ppm	12	0	0	0
Boron	ppm	42	27	61	52

Depot: INSWES
Unique No: 10790353
Signed: Wes Davis
Report Date: 15 Dec 2023



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VOLVO GRAPHS

