



CONSTRUCTION EQUIPMENT

S50402364 VOLVO L90H 624116 - DIESEL ENGINE



Sample No: VCP435907
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50402364



SAMPLE INFORMATION

Sample Number	VCP435907	VCP400084	VCP368372	VCP343061
Sample Date	18 Dec 2023	22 May 2023	13 Dec 2022	10 Jan 2022
Machine Hours	8500	7460	6798	5235
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	13.1	13.5	13.7	13.2
Base Number (BN)	mg KOH/g	10.3	9.7	11.3	10.9
Oxidation (PA)	%	86	84	90	86

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 %	%	0.6	0.4	0.4	0.3
Nitration (PA)	%	68	73	68	62
Sulfation (PA)	%	63	63	67	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	17	6	6
Sodium	ppm	4	4	<1	2
Potassium	ppm	0	4	2	<1



WEAR METALS

Iron	ppm	11	20	8	8
Copper	ppm	1	4	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	4	7	4	3
Chromium	ppm	<1	3	<1	<1
Molybdenum	ppm	43	42	43	41
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1767	1832	1783	1702
Magnesium	ppm	555	555	489	489
Zinc	ppm	1236	1249	1153	1051
Phosphorus	ppm	1069	1009	965	936
Barium	ppm	<1	0	0	0
Boron	ppm	25	38	39	41

Depot: INSWES
Unique No: 10804400
Signed: Wes Davis
Report Date: 27 Dec 2023



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GRAPHS

