



CONSTRUCTION EQUIPMENT

VOLVO L90H 624608 - DIESEL ENGINE



Sample No: VCP412645
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP412645	VCP320813	VCP343425	VCP250305
Sample Date	24 Aug 2023	20 Dec 2021	27 Oct 2021	15 Apr 2021
Machine Hours	3850	2489	2431	2002
Oil Hours	500	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

IAA - INSURANCE AUTO AUCTIONS - TIDEWATER
 211 PRODUCTION DR
 YORKTOWN, VA
 US 23693
 Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	13.4	13.6	13.4	13.2
Base Number (BN)	mg KOH/g	10.4	12.1	---	---
Oxidation (PA)	%	80	84	84	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	0.2	0.5	0.3
Nitration (PA)	%	74	48	67	64
Sulfation (PA)	%	61	65	64	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	10	7	5
Sodium	ppm	2	0	3	3
Potassium	ppm	<1	<1	<1	16



WEAR METALS

Iron	ppm	14	6	11	8
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	2	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	9	3	6	5
Chromium	ppm	1	<1	1	<1
Molybdenum	ppm	42	40	44	39
Nickel	ppm	0	0	<1	2
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1478	1770	1794	1809
Magnesium	ppm	618	527	543	584
Zinc	ppm	1127	1105	1184	1060
Phosphorus	ppm	954	997	995	991
Barium	ppm	0	0	0	0
Boron	ppm	23	71	37	42

Depot: IAATID
Unique No: 10714122
Signed: Wes Davis
Report Date: 28 Oct 2023



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GRAPHS

