



CONSTRUCTION EQUIPMENT

VOLVO L90H 625028 - DIESEL ENGINE



Sample No: VCP441273
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP441273	VCP421840	VCP418489	VCP418979
Sample Date	18 Oct 2023	03 Aug 2023	28 Jun 2023	18 May 2023
Machine Hours	8015	7570	7360	5956
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

IAA - INSURANCE AUTO AUCTIONS - CLAYTON
 60 SADISCO RD
 CLAYTON, NC
 US 27520
 Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	13.9	13.8	14.2	▲ 29.09
Base Number (BN)	mg KOH/g	8.8	9.4	8.4	11.5
Oxidation (PA)	%	57	59	68	380

T:
F:



CONTAMINATION

Soot %	%	0.4	0.2	0.6	0.3
Nitration (PA)	%	58	45	81	35
Sulfation (PA)	%	51	51	55	291
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	3	4	9
Sodium	ppm	2	<1	<1	1
Potassium	ppm	0	1	0	2

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.



WEAR METALS

Iron	ppm	4	4	14	12
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	<1	0	1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	1	4	21
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	60	58	67	9
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1089	1305	1272	▲ 185
Magnesium	ppm	954	810	1040	136
Zinc	ppm	1283	1203	1405	▲ 209
Phosphorus	ppm	959	1029	1133	▲ 1297
Barium	ppm	0	0	0	0
Boron	ppm	4	16	5	33

Depot: INSCLA
Unique No: 10711588
Signed: Sean Felton
Report Date: 27 Oct 2023



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GRAPHS

