



CONSTRUCTION EQUIPMENT

19113 VOLVO L90H 625028 - DIESEL ENGINE



Sample No: VCP418489
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 19113



SAMPLE INFORMATION

Sample Number	VCP418489	VCP418979	VCP403751	VCP366529
Sample Date	28 Jun 2023	18 May 2023	28 Feb 2023	19 Sep 2022
Machine Hours	7360	5956	6692	6050
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

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

OIL CONDITION

Visc @ 100°C	cSt	14.2	29.09	14.2	13.7
Base Number (BN)	mg KOH/g	8.4	11.5	8.9	10.8
Oxidation (PA)	%	68	380	70	72

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 %	%	0.6	0.3	0.7	0.4
Nitration (PA)	%	81	35	81	68
Sulfation (PA)	%	55	291	56	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	9	5	4
Sodium	ppm	<1	1	2	1
Potassium	ppm	0	2	2	<1

WEAR METALS

Iron	ppm	14	12	15	8
Copper	ppm	<1	1	2	<1
Lead	ppm	0	1	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	21	6	2
Chromium	ppm	1	<1	1	<1
Molybdenum	ppm	67	9	63	53
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	1272	185	1339	1318
Magnesium	ppm	1040	136	866	696
Zinc	ppm	1405	209	1260	1117
Phosphorus	ppm	1133	1297	1030	933
Barium	ppm	0	0	0	0
Boron	ppm	5	33	8	15

Depot: INSCLA
Unique No: 10586953
Signed: Don Baldrige
Report Date: 05 Aug 2023



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GRAPHS

