



CONSTRUCTION EQUIPMENT

X47197 VOLVO L90H 624024 - DIESEL ENGINE



Sample No: VCP425051
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X47197



SAMPLE INFORMATION

Sample Number	VCP425051	VCP351306	VCP327663	VCP284514
Sample Date	27 Feb 2024	04 May 2022	05 Dec 2021	08 Feb 2021
Machine Hours	11325	9990	9407	7594
Oil Hours	450	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

IAA - INSURANCE AUTO AUCTIONS - NASHVILLE
 3896 STEWARTS LN
 NASHVILLE, TN
 US 37218
 Contact: KODY

OIL CONDITION

Visc @ 100°C	cSt	12.2	13.9	13.4	14.1
Base Number (BN)	mg KOH/g	9.8	11.5	10.8	---
Oxidation (PA)	%	78	93	87	94

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.6	0.3	0.4	0.7
Nitration (PA)	%	63	78	68	93
Sulfation (PA)	%	61	67	65	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	5	5	3
Sodium	ppm	2	2	3	2
Potassium	ppm	1	<1	0	<1

WEAR METALS

Iron	ppm	13	9	10	16
Copper	ppm	1	<1	<1	<1
Lead	ppm	0	1	<1	<1
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	8	4	4	6
Chromium	ppm	1	<1	<1	1
Molybdenum	ppm	43	40	38	37
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	1559	1839	1730	1650
Magnesium	ppm	492	559	512	548
Zinc	ppm	1106	1230	1137	1165
Phosphorus	ppm	954	1044	923	948
Barium	ppm	0	0	0	0
Boron	ppm	36	37	30	26

Depot: INSNAS
Unique No: 10903919
Signed: Wes Davis
Report Date: 01 Mar 2024



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GRAPHS

