



CONSTRUCTION EQUIPMENT

IAA VOLVO L90H 624523 - DIESEL ENGINE



Sample No: VCP429922
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: IAA



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SAMPLE INFORMATION

Sample Number	VCP429922	VCP326708	VCP335407	VCP316772
Sample Date	13 Nov 2023	19 Jul 2022	20 Dec 2021	31 Aug 2021
Machine Hours	9279	7063	6016	3488
Oil Hours	0	500	1500	1500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.1	13.7	13.8	13.8
Base Number (BN)	mg KOH/g	10.4	12.1	11.3	---
Oxidation (PA)	%	82	89	86	81



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1	0.6	0.8	1
Nitration (PA)	%	83	72	75	84
Sulfation (PA)	%	61	67	65	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	6	4
Sodium	ppm	4	2	3	2
Potassium	ppm	<1	1	<1	<1



WEAR METALS

Iron	ppm	10	8	10	12
Copper	ppm	1	1	3	3
Lead	ppm	0	<1	2	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	4	4	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	45	40	42	43
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1536	1649	1790	1696
Magnesium	ppm	491	477	509	511
Zinc	ppm	1049	1122	1100	1093
Phosphorus	ppm	910	942	939	936
Barium	ppm	<1	0	<1	0
Boron	ppm	20	25	27	18

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.

Depot: VOLVO0093
Unique No: 10847972
Signed: Wes Davis
Report Date: 26 Jan 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

