



CONSTRUCTION EQUIPMENT

2023 VOLVO L90H 625336 - DIESEL ENGINE



Sample No: VCP434871
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 2023



SAMPLE INFORMATION

Sample Number	VCP434871	VCP401529	VCP326435	VCP355378
Sample Date	19 Apr 2024	15 Aug 2023	24 Apr 2023	16 Sep 2022
Machine Hours	2930	2500	1995	1530
Oil Hours	0	0	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	13.0	13.1	13.6
Base Number (BN)	mg KOH/g	10.6	10.7	9.6	11.5
Oxidation (PA)	%	81	81	77	88

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 %	%	0.2	0.1	0.2	0.3
Nitration (PA)	%	54	54	55	65
Sulfation (PA)	%	61	60	56	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	6	7
Sodium	ppm	1	3	2	2
Potassium	ppm	<1	<1	1	1



WEAR METALS

Iron	ppm	9	8	15	22
Copper	ppm	0	1	<1	1
Lead	ppm	0	0	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	4	2	6	4
Chromium	ppm	<1	<1	1	2
Molybdenum	ppm	35	42	39	41
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1539	1805	1602	1698
Magnesium	ppm	456	556	497	502
Zinc	ppm	1006	1231	1116	1122
Phosphorus	ppm	841	1002	895	929
Barium	ppm	0	0	0	0
Boron	ppm	47	56	54	36

Depot: LEOMAD
Unique No: 11007269
Signed: Wes Davis
Report Date: 03 May 2024

VOLVO **GRAPHS**

