



CONSTRUCTION EQUIPMENT

X37243 VOLVO L220H 3384 - DIESEL ENGINE



Sample No: VCP442589
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X37243



SAMPLE INFORMATION

Sample Number	VCP442589	VCP412342	VCP387040	VCP383905
Sample Date	11 Oct 2023	18 Jul 2023	09 Jan 2023	25 Oct 2022
Machine Hours	0	3751	0	1698
Oil Hours	0	0	0	500
Oil Changed	N/A	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.9	12.4	12.9
Base Number (BN)	mg KOH/g	10.5	9.3	10.9	11.5
Oxidation (PA)	%	83	81	79	86

CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	58	68	56	64
Sulfation (PA)	%	62	61	61	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.4	<1.0
Silicon	ppm	5	6	6	6
Sodium	ppm	3	1	2	2
Potassium	ppm	2	2	0	<1

WEAR METALS

Iron	ppm	11	10	5	5
Copper	ppm	2	2	5	33
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	3	2	<1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	39	66	42	45
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1563	1885	1622	1755
Magnesium	ppm	481	621	502	504
Zinc	ppm	1101	1247	1113	1105
Phosphorus	ppm	928	1045	897	919
Barium	ppm	0	<1	0	0
Boron	ppm	42	90	49	49

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: DIPMED
Unique No: 10712814
Signed: Wes Davis
Report Date: 27 Oct 2023



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GRAPHS

