



CONSTRUCTION EQUIPMENT

633991 MOSAIC VOLVO L220H 3205 - DIESEL ENGINE



Sample No: VCP429933
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 633991 MOSAIC



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SAMPLE INFORMATION

Sample Number	VCP429933	VCP402505	VCP354088	VCP363470
Sample Date	17 Nov 2023	16 Feb 2023	23 Aug 2022	18 May 2022
Machine Hours	6388	5406	4493	3819
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.4	12.3	12.7	13.2
Base Number (BN)	mg KOH/g	8.5	8.9	10.0	9.8
Oxidation (PA)	%	82	81	90	81



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	73	73	73	62
Sulfation (PA)	%	61	60	67	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	3	4
Sodium	ppm	2	2	4	2
Potassium	ppm	3	1	0	0



WEAR METALS

Iron	ppm	4	5	6	5
Copper	ppm	13	4	4	8
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	1	1	1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	42	37	41	40
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1507	1584	1629	1606
Magnesium	ppm	504	492	482	483
Zinc	ppm	1072	995	1058	1073
Phosphorus	ppm	872	830	881	866
Barium	ppm	0	0	1	0
Boron	ppm	21	23	36	44

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: 10764775
Signed: Wes Davis
Report Date: 30 Nov 2023



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GRAPHS

