



CONSTRUCTION EQUIPMENT

594344 MOSAIC CO VOLVO L260H 1296 - DIESEL ENGINE



Sample No: VCP414201
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 594344 MOSAIC CO



SAMPLE INFORMATION

Sample Number	VCP414201	VCP420193	VCP409319	VCP386341
Sample Date	22 Aug 2023	08 May 2023	16 Feb 2023	10 Oct 2022
Machine Hours	2943	2242	1549	955
Oil Hours	500	600	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.8	12.6	13.0
Base Number (BN)	mg KOH/g	9.1	8.9	9.1	10.4
Oxidation (PA)	%	85	83	80	80



CONTAMINATION

Soot %	%	0.2	0.1	0.1	0.2
Nitration (PA)	%	71	72	65	73
Sulfation (PA)	%	61	61	62	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	9	6	8
Sodium	ppm	2	2	2	0
Potassium	ppm	<1	3	<1	0



WEAR METALS

Iron	ppm	9	8	7	7
Copper	ppm	2	3	15	46
Lead	ppm	<1	1	<1	<1
Tin	ppm	1	2	<1	1
Aluminum	ppm	5	4	1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	43	48	42	52
Nickel	ppm	0	1	2	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	2	<1
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1718	1710	1527	1564
Magnesium	ppm	516	521	465	631
Zinc	ppm	1154	1221	1002	1176
Phosphorus	ppm	940	983	830	956
Barium	ppm	0	0	0	0
Boron	ppm	22	35	42	12

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: 10668491
Signed: Wes Davis
Report Date: 28 Sep 2023



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GRAPHS

