



CONSTRUCTION EQUIPMENT

645890 GENERAL RV VOLVO L20H 1220423 - DIESEL ENGINE



Sample No: VCP435395
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 645890 GENERAL RV



SAMPLE INFORMATION

Sample Number	VCP435395	VCP404982	VCP380513	VCP364084
Sample Date	08 Dec 2023	19 Apr 2023	04 Jan 2023	19 Aug 2022
Machine Hours	2476	1574	983	479
Oil Hours	500	0	500	479
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
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OIL CONDITION

Visc @ 100°C	cSt	13.3	14.1	13.6	▲ 11.6
Base Number (BN)	mg KOH/g	10.1	7.5	8.6	10.9
Oxidation (PA)	%	89	71	73	90

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 %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	75	78	79	73
Sulfation (PA)	%	61	49	53	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.1
Silicon	ppm	7	4	6	12
Sodium	ppm	2	2	2	4
Potassium	ppm	<1	0	1	0



WEAR METALS

Iron	ppm	2	7	7	9
Copper	ppm	0	2	3	7
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	<1	1	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	43	52	54	38
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1622	1037	1187	1781
Magnesium	ppm	575	870	827	435
Zinc	ppm	1193	1118	1193	1029
Phosphorus	ppm	1024	909	987	876
Barium	ppm	0	0	0	5
Boron	ppm	42	<1	8	63

Depot: VOLVO2990
Unique No: 10794187
Signed: Wes Davis
Report Date: 20 Dec 2023



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GRAPHS

