



CONSTRUCTION EQUIPMENT

728845 GERDAU VOLVO L350H 1221 - DIESEL ENGINE



Sample No: VCP453750
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 728845 GERDAU



SAMPLE INFORMATION

Sample Number	VCP453750	VCP436402	VCP445304	VCP452380
Sample Date	12 Jun 2024	03 Apr 2024	07 Mar 2024	10 Jan 2024
Machine Hours	10686	9481	8902	7847
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	MARGINAL	NORMAL	MARGINAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.0	■ 13.3	▲ 12.3	■ 13.3
Base Number (BN)	mg KOH/g	■ 8.8	■ 9.5	■ 9.5	■ 8.9
Oxidation (PA)	%	57	59	64	64

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.3
Nitration (PA)	%	58	58	59	68
Sulfation (PA)	%	51	53	53	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 4.6	<1.0	▲ 3.5	<1.0
Silicon	ppm	■ 3	■ 2	■ 4	■ 5
Sodium	ppm	■ 2	■ 1	■ 2	■ 0
Potassium	ppm	■ 4	■ <1	■ 2	■ 3

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

WEAR METALS

Iron	ppm	■ 1	■ 3	■ 4	■ 10
Copper	ppm	■ 0	■ 2	■ 1	■ 3
Lead	ppm	■ 0	■ <1	■ <1	■ 0
Tin	ppm	■ 0	■ 0	■ <1	■ 0
Aluminum	ppm	■ 2	■ 1	■ 2	■ 2
Chromium	ppm	■ 0	■ 0	■ <1	■ <1
Molybdenum	ppm	■ 55	■ 51	■ 53	■ 67
Nickel	ppm	■ <1	■ <1	■ <1	■ 0
Titanium	ppm	0	0	<1	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ 0
Vanadium	ppm	0	<1	<1	0

ADDITIVES

Calcium	ppm	■ 1035	■ 1070	■ 1202	■ 1113
Magnesium	ppm	■ 955	■ 947	■ 820	■ 1052
Zinc	ppm	■ 1266	■ 1177	■ 1169	■ 1314
Phosphorus	ppm	■ 1053	■ 1062	■ 995	■ 929
Barium	ppm	■ 0	■ 0	■ 0	■ 5
Boron	ppm	■ 4	■ 0	■ 9	■ 2

Depot: VOLVO2990
Unique No: 11088270
Signed: Jonathan Hester
Report Date: 25 Jun 2024



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VOLVO GRAPHS

