



CONSTRUCTION EQUIPMENT

689421 GERDAU VOLVO L350H 1221 - DIESEL ENGINE



Sample No: VCP436402
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 689421 GERDAU



SAMPLE INFORMATION

Sample Number	VCP436402	VCP445304	VCP452380	VCP431348
Sample Date	03 Apr 2024	07 Mar 2024	10 Jan 2024	20 Sep 2023
Machine Hours	9481	8902	7847	6073
Oil Hours	500	500	500	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	MARGINAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	12.3	13.3	13.1
Base Number (BN)	mg KOH/g	9.5	9.5	8.9	6.5
Oxidation (PA)	%	59	64	64	67

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.3	0.5
Nitration (PA)	%	58	59	68	71
Sulfation (PA)	%	53	53	55	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	3.5	<1.0	<1.0
Silicon	ppm	2	4	5	4
Sodium	ppm	1	2	0	1
Potassium	ppm	<1	2	3	5

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 acceptable for the time in service.

WEAR METALS

Iron	ppm	3	4	10	15
Copper	ppm	2	1	3	6
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	<1	0	1
Aluminum	ppm	1	2	2	3
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	51	53	67	59
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	1070	1202	1113	1070
Magnesium	ppm	947	820	1052	978
Zinc	ppm	1177	1169	1314	1234
Phosphorus	ppm	1062	995	929	954
Barium	ppm	0	0	5	0
Boron	ppm	0	9	2	0

Depot: VOLVO2990
Unique No: 10968717
Signed: Angela Borella
Report Date: 12 Apr 2024



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VOLVO GRAPHS

