



CONSTRUCTION EQUIPMENT

647300 GERDAU VOLVO L350H 1221 - DIESEL ENGINE



Sample No: VCP452380
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 647300 GERDAU



SAMPLE INFORMATION

Sample Number	VCP452380	VCP431348	VCP407136	VCP406662
Sample Date	10 Jan 2024	20 Sep 2023	07 Jun 2023	10 May 2023
Machine Hours	7847	6073	4286	3621
Oil Hours	500	1000	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.1	13.9	13.9
Base Number (BN)	mg KOH/g	8.9	6.5	9.5	9.6
Oxidation (PA)	%	64	67	54	57

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 %	%	0.3	0.5	0.2	0.2
Nitration (PA)	%	68	71	57	52
Sulfation (PA)	%	55	59	52	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	2	3
Sodium	ppm	0	1	0	1
Potassium	ppm	3	5	1	<1



WEAR METALS

Iron	ppm	10	15	5	5
Copper	ppm	3	6	2	2
Lead	ppm	0	<1	0	0
Tin	ppm	0	1	<1	<1
Aluminum	ppm	2	3	0	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	67	59	56	58
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1113	1070	1005	1073
Magnesium	ppm	1052	978	884	970
Zinc	ppm	1314	1234	1151	1258
Phosphorus	ppm	929	954	952	1016
Barium	ppm	5	0	0	0
Boron	ppm	2	0	0	0

Depot: VOLVO2990
Unique No: 10863273
Signed: Don Baldrige
Report Date: 07 Feb 2024



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GRAPHS

