



CONSTRUCTION EQUIPMENT

716594 STONE CO VOLVO L350H 1212 - DIESEL ENGINE



Sample No: VCP453661
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 716594 STONE CO



SAMPLE INFORMATION

Sample Number	VCP453661	VCP433731	VCP431341	VCP412705
Sample Date	23 May 2024	12 Dec 2023	28 Sep 2023	07 Aug 2023
Machine Hours	3425	2924	2441	1955
Oil Hours	500	500	500	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.2	13.1	13.6
Base Number (BN)	mg KOH/g	7.1	8.0	7.3	7.5
Oxidation (PA)	%	79	74	67	68

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 %	%	0.5	0.4	0.6	0.6
Nitration (PA)	%	86	80	78	76
Sulfation (PA)	%	64	62	58	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	4	4
Sodium	ppm	1	1	<1	<1
Potassium	ppm	12	4	8	5



WEAR METALS

Iron	ppm	10	6	11	12
Copper	ppm	4	2	3	4
Lead	ppm	<1	0	<1	<1
Tin	ppm	1	<1	1	<1
Aluminum	ppm	3	2	1	1
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	93	76	58	68
Nickel	ppm	3	2	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1292	1206	1335	1173
Magnesium	ppm	898	875	920	1007
Zinc	ppm	1141	1200	1277	1280
Phosphorus	ppm	902	999	1020	999
Barium	ppm	1	<1	0	0
Boron	ppm	64	63	1	15

Depot: VOLVO2990
Unique No: 11048564
Signed: Sean Felton
Report Date: 30 May 2024



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VOLVO GRAPHS

