



CONSTRUCTION EQUIPMENT

645692 STONE CO VOLVO L350H 1212 - DIESEL ENGINE



Sample No: VCP433731
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 645692 STONE CO



SAMPLE INFORMATION

Sample Number	VCP433731	VCP431341	VCP412705	VCP407925
Sample Date	12 Dec 2023	28 Sep 2023	07 Aug 2023	08 Jun 2023
Machine Hours	2924	2441	1955	1474
Oil Hours	500	500	1000	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.1	13.6	13.5
Base Number (BN)	mg KOH/g	8.0	7.3	7.5	6.9
Oxidation (PA)	%	74	67	68	78

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 %	%	0.4	0.6	0.6	0.6
Nitration (PA)	%	80	78	76	78
Sulfation (PA)	%	62	58	59	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	3
Sodium	ppm	1	<1	<1	2
Potassium	ppm	4	8	5	2



WEAR METALS

Iron	ppm	6	11	12	13
Copper	ppm	2	3	4	16
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	1	<1	0
Aluminum	ppm	2	1	1	10
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	76	58	68	66
Nickel	ppm	2	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1206	1335	1173	1149
Magnesium	ppm	875	920	1007	992
Zinc	ppm	1200	1277	1280	1296
Phosphorus	ppm	999	1020	999	1001
Barium	ppm	<1	0	0	0
Boron	ppm	63	1	15	9

Depot: VOLVO2990
Unique No: 10794196
Signed: Don Baldrige
Report Date: 20 Dec 2023



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GRAPHS

