



CONSTRUCTION EQUIPMENT

X59520 VOLVO L110H 632135 - DIESEL ENGINE



Sample No: VCP437004
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X59520



SAMPLE INFORMATION

Sample Number	VCP437004	VCP413493	VCP384456	VCP348985
Sample Date	24 Apr 2024	18 Jul 2023	01 Feb 2023	10 Feb 2022
Machine Hours	4050	3446	2899	1112
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.6	14.4	13.1
Base Number (BN)	mg KOH/g	9.5	8.9	7.1	10.8
Oxidation (PA)	%	84	84	85	86

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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	0.6	0.4
Nitration (PA)	%	64	68	77	64
Sulfation (PA)	%	61	63	63	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	8	7
Sodium	ppm	2	4	3	3
Potassium	ppm	0	0	3	2

WEAR METALS

Iron	ppm	21	29	40	28
Copper	ppm	<1	4	10	4
Lead	ppm	0	<1	2	2
Tin	ppm	0	<1	2	2
Aluminum	ppm	▲ 33	▲ 31	▲ 55	65
Chromium	ppm	1	2	3	4
Molybdenum	ppm	40	39	23	37
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1826	1972	2002	1759
Magnesium	ppm	518	496	302	582
Zinc	ppm	1176	1230	1167	1133
Phosphorus	ppm	973	1004	930	974
Barium	ppm	0	0	0	0
Boron	ppm	31	42	57	37

Depot: SCOSAI
Unique No: 11006061
Signed: Don Baldrige
Report Date: 03 May 2024



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GRAPHS

