



CONSTRUCTION EQUIPMENT

527633 VOLVO L60H 623294 - DIESEL ENGINE



Sample No: VCP447472
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 527633



SAMPLE INFORMATION

Sample Number	VCP447472	VCP428815	VCP429678	VCP432068
Sample Date	05 Apr 2024	14 Feb 2024	14 Dec 2023	11 Oct 2023
Machine Hours	2319	2013	1736	1079
Oil Hours	500	500	0	1079
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	ABNORMAL

RECYCLE AMERICA
 12100 YOUNG PINE RD
 ORLANDO, FL
 US 32829
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 100°C	cSt	13.1	13.2	13.0	12.0
Base Number (BN)	mg KOH/g	10.5	10.3	11.2	8.4
Oxidation (PA)	%	73	75	76	72

T:
F:

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. 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 %	%	0.2	0.2	0.1	0.5
Nitration (PA)	%	54	53	39	69
Sulfation (PA)	%	57	58	60	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.6
Silicon	ppm	▲ 23	▲ 21	7	▲ 26
Sodium	ppm	2	1	1	5
Potassium	ppm	2	0	2	<1

WEAR METALS

Iron	ppm	7	6	1	39
Copper	ppm	2	<1	<1	12
Lead	ppm	<1	0	<1	1
Tin	ppm	<1	<1	<1	4
Aluminum	ppm	4	3	1	9
Chromium	ppm	<1	<1	0	3
Molybdenum	ppm	41	40	38	35
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	4
Vanadium	ppm	0	0	<1	<1

ADDITIVES

Calcium	ppm	1723	1582	1488	1655
Magnesium	ppm	610	494	456	551
Zinc	ppm	1175	1041	1016	1091
Phosphorus	ppm	1028	923	809	935
Barium	ppm	0	0	0	0
Boron	ppm	45	46	67	19

Depot: RECORL
Unique No: 11018408
Signed: Sean Felton
Report Date: 10 May 2024



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GRAPHS

