



CONSTRUCTION EQUIPMENT

9774 BALTIMORE SCRAP VOLVO L110E 60250 - DIESEL ENGINE



Sample No: VCP413684
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 9774 BALTIMORE SCRAP



SAMPLE INFORMATION

Sample Number	VCP413684	VCP171994	VCP142385	VCP153248
Sample Date	16 Oct 2023	02 Dec 2014	15 Apr 2014	07 Aug 2013
Machine Hours	15314	10609	10084	9562
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.51	12.65	14.07
Base Number (BN)	mg KOH/g	7.5	---	---	---
Oxidation (PA)	%	33	60	60	56

CONTAMINATION

Soot %	%	0.1	0.2	0	0
Nitration (PA)	%	47	67	67	58
Sulfation (PA)	%	40	53	50	47
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	4.2	<1.0	<1.0	<1.0
Silicon	ppm	4	7	4	6
Sodium	ppm	0	61	6	23
Potassium	ppm	0	19	2	10

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	0	8	7	7
Copper	ppm	<1	35	2	4
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	<1	2	1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	46	42	45
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	<1	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	2	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	2074	1305	1234	1285
Magnesium	ppm	45	785	734	809
Zinc	ppm	1042	982	965	1019
Phosphorus	ppm	853	861	830	909
Barium	ppm	<1	0	0	0
Boron	ppm	4	23	33	38

Depot: VOLV00150
Unique No: 10699463
Signed: Don Baldrige
Report Date: 19 Oct 2023



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GRAPHS

