



CONSTRUCTION EQUIPMENT

VOLVO L120H 633087 - DIESEL ENGINE



Sample No: VCP434847
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP434847	VCP383149	VCP393453	VCP384165
Sample Date	14 Jun 2024	11 Sep 2023	19 May 2023	12 Jan 2023
Machine Hours	2940	1985	1500	985
Oil Hours	500	0	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

LEONARDS CONTRACTING
 30850 STEPHENSON HWY
 MADISON HEIGHTS, MI
 US 48071
 Contact: LARRY SCHRADER
 larry.schrader@sdevelop.com
 T: (810)499-1953
 F: x:



OIL CONDITION

Visc @ 100°C	cSt	13.1	13.4	13.2	13.1
Base Number (BN)	mg KOH/g	10.4	10.0	10.6	10.4
Oxidation (PA)	%	82	81	83	80

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 %	%	0.3	0.4	0.3	0.2
Nitration (PA)	%	59	60	63	56
Sulfation (PA)	%	62	61	63	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	4	8
Sodium	ppm	2	5	<1	1
Potassium	ppm	<1	1	1	2



WEAR METALS

Iron	ppm	8	16	14	15
Copper	ppm	<1	3	3	4
Lead	ppm	0	0	<1	<1
Tin	ppm	0	2	1	1
Aluminum	ppm	3	4	5	10
Chromium	ppm	0	1	1	2
Molybdenum	ppm	37	43	44	42
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1700	1839	1774	1698
Magnesium	ppm	469	553	513	510
Zinc	ppm	1021	1194	1179	1151
Phosphorus	ppm	899	993	968	969
Barium	ppm	0	0	0	0
Boron	ppm	33	39	46	60

Depot: LEOMAD
Unique No: 11087200
Signed: Wes Davis
Report Date: 20 Jun 2024



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GRAPHS

