



CONSTRUCTION EQUIPMENT

VOLVO L120H 632190 - DIESEL ENGINE



Sample No: VCP382926
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP382926	VCP384269	VCP353958	VCP341663
Sample Date	13 Jun 2023	05 Jan 2023	16 Sep 2022	07 Jun 2022
Machine Hours	8035	7550	7055	6530
Oil Hours	500	0	500	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 SCHRADE
 larry.schrade@sdevelop.com
 T: (810)499-1953
 F: x:



OIL CONDITION

Visc @ 100°C	cSt	13.1	13.4	13.8	13.6
Base Number (BN)	mg KOH/g	10.4	10.4	11.5	11.0
Oxidation (PA)	%	86	82	89	86

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

Soot %	%	0.3	0.4	0.5	0.4
Nitration (PA)	%	60	61	68	64
Sulfation (PA)	%	63	62	68	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	4	5
Sodium	ppm	2	<1	1	2
Potassium	ppm	<1	<1	<1	1



WEAR METALS

Iron	ppm	10	13	12	13
Copper	ppm	<1	<1	1	1
Lead	ppm	0	<1	<1	<1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	5	5	5	6
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	42	40	38
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1806	1715	1727	1797
Magnesium	ppm	541	484	481	501
Zinc	ppm	1264	1096	1075	1186
Phosphorus	ppm	997	931	893	964
Barium	ppm	0	1	0	<1
Boron	ppm	52	43	31	45

Depot: LEOMAD
Unique No: 10532320
Signed: Wes Davis
Report Date: 27 Jun 2023



CONSTRUCTION EQUIPMENT



GRAPHS

