



CONSTRUCTION EQUIPMENT

VOLVO L120H 632190 - DIESEL ENGINE



Sample No: VCP383104
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP383104	VCP382926	VCP384269	VCP353958
Sample Date	12 Oct 2023	13 Jun 2023	05 Jan 2023	16 Sep 2022
Machine Hours	8550	8035	7550	7055
Oil Hours	500	500	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 SCHRADE
 larry.schrade@sdevelop.com
 T: (810)499-1953
 F: x:



OIL CONDITION

Visc @ 100°C	cSt	13.2	13.1	13.4	13.8
Base Number (BN)	mg KOH/g	9.9	10.4	10.4	11.5
Oxidation (PA)	%	79	86	82	89

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	0.3	0.4	0.5
Nitration (PA)	%	56	60	61	68
Sulfation (PA)	%	60	63	62	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	4
Sodium	ppm	3	2	<1	1
Potassium	ppm	0	<1	<1	<1



WEAR METALS

Iron	ppm	11	10	13	12
Copper	ppm	1	<1	<1	1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	7	5	5	5
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	44	41	42	40
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1656	1806	1715	1727
Magnesium	ppm	498	541	484	481
Zinc	ppm	1066	1264	1096	1075
Phosphorus	ppm	903	997	931	893
Barium	ppm	0	0	1	0
Boron	ppm	50	52	43	31

Depot: LEOMAD
Unique No: 10696495
Signed: Wes Davis
Report Date: 16 Oct 2023



CONSTRUCTION EQUIPMENT



GRAPHS

