



CONSTRUCTION EQUIPMENT

VOLVO L120G 30761 - DIESEL ENGINE



Sample No: VCP382927
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP382927	VCP396722	VCP391345	VCP372084
Sample Date	13 Jun 2023	29 Mar 2023	28 Oct 2022	29 Jun 2022
Machine Hours	12575	12165	11780	11355
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

LEONARDS CONTRACTING
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 MADISON HEIGHTS, MI
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	█ 13.9	█ 14.5	█ 14.1
Base Number (BN)	mg KOH/g	█ 10.4	█ 10.8	█ 12.4	█ 11.8
Oxidation (PA)	%	92	89	96	94

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 %	%	█ 0.8	█ 1.2	█ 1.5	█ 1.2
Nitration (PA)	%	71	88	98	88
Sulfation (PA)	%	67	69	75	71
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	█ 5	█ 5	█ 5	█ 5
Sodium	ppm	█ 2	█ 3	█ 2	█ 2
Potassium	ppm	█ <1	█ 1	█ 0	█ 0



WEAR METALS

Iron	ppm	█ 16	█ 20	█ 19	█ 17
Copper	ppm	█ 1	█ 2	█ 1	█ 2
Lead	ppm	█ 0	█ 0	█ <1	█ <1
Tin	ppm	█ <1	█ <1	█ <1	█ 1
Aluminum	ppm	█ 4	▲ 15	█ 4	█ 3
Chromium	ppm	█ 1	█ 2	█ 1	█ 1
Molybdenum	ppm	█ 42	█ 38	█ 35	█ 44
Nickel	ppm	█ <1	█ 1	█ <1	█ 0
Titanium	ppm	0	0	<1	<1
Silver	ppm	█ 0	█ 0	0	<1
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	█ 1854	█ 1711	█ 1897	█ 1844
Magnesium	ppm	█ 561	█ 451	█ 452	█ 558
Zinc	ppm	█ 1297	█ 1113	█ 1189	█ 1185
Phosphorus	ppm	█ 1028	█ 931	█ 969	█ 986
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 36	█ 38	█ 42	█ 33

Depot: LEOMAD
Unique No: 10532303
Signed: Wes Davis
Report Date: 27 Jun 2023

VOLVO **GRAPHS**

