

[[600223]] VOLVO L120H 632093 - DIESEL ENGINE

Sample No: VCP379873

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VCP379873	VCP424162	VCP424164	VCP403244
Sample Date	19 Apr 2024	21 Sep 2023	07 Sep 2023	07 Jul 2023
Machine Hours	20875	19017	18922	18667
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	14.5	13.6	13.6	13.5
Base Number (BN)	mg KOH/g	8.8	10.2	10.0	9.5
Oxidation (PA)	%	92	87	82	88

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.4	0.3	0.3
Nitration (PA)	%	89	68	61	77
Sulfation (PA)	%	66	66	63	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	11	11	7
Sodium	ppm	2	4	4	0
Potassium	ppm	2	0	0	1

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.

WEAR METALS

Iron	ppm	17	12	10	11
Copper	ppm	1	<1	<1	<1
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	5	3	7	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	50	42	44	44
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	1537	1746	1859	1689
Magnesium	ppm	785	594	611	582
Zinc	ppm	1319	1414	1427	1227
Phosphorus	ppm	1108	1139	1215	1018
Barium	ppm	0	0	0	0
Boron	ppm	41	41	54	43

Depot: VOLVO1271
Unique No: 11004803
Signed: Wes Davis
Report Date: 01 May 2024

Contact/Location: CHRIS COPELAND - VOLVO1271

GRAPHS

