



CONSTRUCTION EQUIPMENT

X59724 VOLVO L120H 633249 - DIESEL ENGINE



Sample No: VCP331060
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X59724



SAMPLE INFORMATION

Sample Number	VCP331060	VCP426054	VCP425346	VCP413371
Sample Date	11 Jun 2024	26 Feb 2024	27 Nov 2023	28 Aug 2023
Machine Hours	2965	2459	2012	1518
Oil Hours	500	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.4	13.6	13.7
Base Number (BN)	mg KOH/g	9.7	10.3	10.2	10.3
Oxidation (PA)	%	83	84	84	85

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.9	0.8	1	1
Nitration (PA)	%	71	69	69	72
Sulfation (PA)	%	65	63	65	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	6	6
Sodium	ppm	1	2	3	<1
Potassium	ppm	2	2	0	<1

WEAR METALS

Iron	ppm	14	18	20	22
Copper	ppm	1	2	2	3
Lead	ppm	<1	0	0	<1
Tin	ppm	1	1	1	2
Aluminum	ppm	6	9	9	9
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	44	41	41
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	1715	1684	1818	1628
Magnesium	ppm	514	509	526	482
Zinc	ppm	1118	1160	1157	1089
Phosphorus	ppm	945	1051	986	907
Barium	ppm	0	0	0	0
Boron	ppm	24	31	31	17

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.

Depot: SCOSAI
Unique No: 11075824
Signed: Don Baldrige
Report Date: 14 Jun 2024



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GRAPHS

