



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L180H 3090 - DIESEL ENGINE



Sample No: VCP371214
Oil Type: MOBIL 15W40
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

Sample Number	VCP371214	VCP402493	VCP371235	VCP341679
Sample Date	06 Oct 2023	19 Apr 2023	24 Feb 2023	17 Jan 2023
Machine Hours	19907	19441	18935	18352
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.7	12.9	12.9
Base Number (BN)	mg KOH/g	9.5	9.0	9.1	9.3
Oxidation (PA)	%	57	59	57	55

CONTAMINATION

Soot %	%	0.3	0.2	0.2	0.2
Nitration (PA)	%	52	55	60	54
Sulfation (PA)	%	52	52	52	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	3	4	2
Sodium	ppm	<1	1	2	1
Potassium	ppm	0	0	<1	<1

WEAR METALS

Iron	ppm	2	2	3	3
Copper	ppm	<1	0	<1	<1
Lead	ppm	<1	0	<1	1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	1	<1	1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	61	68	66	61
Nickel	ppm	0	0	1	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	2	0
Manganese	ppm	0	<1	1	<1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	1103	1199	1167	1153
Magnesium	ppm	937	931	855	937
Zinc	ppm	1255	1255	1105	1293
Phosphorus	ppm	1035	1010	906	1023
Barium	ppm	0	0	0	0
Boron	ppm	6	15	22	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: VOLVO1835
Unique No: 10699591
Signed: Wes Davis
Report Date: 19 Oct 2023



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GRAPHS

