



CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L180H 4929 - DIESEL ENGINE



Sample No: VCP406620
Oil Type: MOBIL 15W40
Job No: TRANSPORT LEASING



SAMPLE INFORMATION

Sample Number	VCP406620	VCP368334	VCP382209	VCP401001
Sample Date	11 Jan 2024	22 Nov 2023	26 Sep 2023	19 Apr 2023
Machine Hours	11451	11038	10607	10202
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.0	12.3	12.4	12.1
Base Number (BN)	mg KOH/g	8.7	9.3	9.1	8.7
Oxidation (PA)	%	57	58	60	59

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.1
Nitration (PA)	%	58	55	59	61
Sulfation (PA)	%	51	52	53	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	2	2
Sodium	ppm	2	6	3	1
Potassium	ppm	<1	4	2	0

WEAR METALS

Iron	ppm	3	10	<1	3
Copper	ppm	<1	11	4	0
Lead	ppm	0	0	<1	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	<1	5	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	65	67	65	61
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0

ADDITIVES

Calcium	ppm	1133	1192	1169	1052
Magnesium	ppm	1024	834	1029	857
Zinc	ppm	1319	1165	1332	1146
Phosphorus	ppm	1134	975	1070	909
Barium	ppm	0	0	0	0
Boron	ppm	9	24	4	10

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: 10836658
Signed: Wes Davis
Report Date: 20 Jan 2024



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GRAPHS

