



CONSTRUCTION EQUIPMENT

9817 LKQ CURTIS BAY VOLVO L90F 28851 - DIESEL ENGINE



Sample No: VCP426366
Oil Type: CHEVRON 15W40
Job No: 9817 LKQ CURTIS BAY



SAMPLE INFORMATION

Sample Number	VCP426366	VCP392614	VCP347569	VCP340184
Sample Date	18 Oct 2023	12 Jan 2023	28 Apr 2022	13 Dec 2021
Machine Hours	13817	13280	12917	12330
Oil Hours	0	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	13.8	13.7	13.6	14.0
Base Number (BN)	mg KOH/g	7.8	8.5	8.7	9.2
Oxidation (PA)	%	65	67	80	73



CONTAMINATION

Soot %	%	0.1	0.1	0.2	0.2
Nitration (PA)	%	58	60	79	68
Sulfation (PA)	%	59	61	68	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	4	4
Sodium	ppm	2	<1	1	5
Potassium	ppm	0	3	0	0



WEAR METALS

Iron	ppm	2	3	6	5
Copper	ppm	<1	<1	1	<1
Lead	ppm	0	2	4	3
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	1	3	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	89	119	118	79
Nickel	ppm	0	0	0	0
Titanium	ppm	1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1275	1564	1564	1419
Magnesium	ppm	589	576	710	752
Zinc	ppm	1161	1133	888	804
Phosphorus	ppm	860	912	760	724
Barium	ppm	0	0	0	0
Boron	ppm	226	347	221	108

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: VOLV00150
Unique No: 10711608
Signed: Wes Davis
Report Date: 26 Oct 2023



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VOLVO GRAPHS

