



CONSTRUCTION EQUIPMENT

VOLVO L180H 5290 - DIESEL ENGINE



Sample No: VCP435810
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP435810	VCP433656	VCP307519	VCP312990
Sample Date	23 Apr 2024	06 Mar 2024	29 Jan 2024	13 Nov 2023
Machine Hours	7228	6999	6771	6425
Oil Hours	229	228	346	157
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SCHILDBERG CONSTRUCTION COMPANY
 PO BOX 358
 GREENFIELD, IA
 US 50849
 Contact: SCOTT ARMSTRONG
 sarmstrong@schildberg.com
 T: (641)743-8237
 F: (641)743-2486



OIL CONDITION

Visc @ 100°C	cSt	12.7	13.1	12.8	13.1
Base Number (BN)	mg KOH/g	9.0	7.1	6.7	7.1
Oxidation (PA)	%	72	59	58	59

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	53	63	68	63
Sulfation (PA)	%	57	48	49	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	10	5
Sodium	ppm	2	1	5	1
Potassium	ppm	2	0	3	<1



WEAR METALS

Iron	ppm	4	<1	4	0
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	0	<1	0
Aluminum	ppm	2	2	6	2
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	60	111	188	118
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	<1	0	<1	<1



ADDITIVES

Calcium	ppm	1503	1316	1679	1276
Magnesium	ppm	516	650	937	687
Zinc	ppm	878	810	1180	904
Phosphorus	ppm	765	742	923	712
Barium	ppm	0	0	34	0
Boron	ppm	91	123	194	137

Depot: SCHGRE
Unique No: 11004801
Signed: Wes Davis
Report Date: 01 May 2024

VOLVO **GRAPHS**

