



CONSTRUCTION EQUIPMENT

VOLVO L180H 5290 - DIESEL ENGINE



Sample No: VCP402901
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP402901	VCP343273	VCP362759	VCP386307
Sample Date	27 Jul 2023	19 Jun 2023	08 May 2023	13 Mar 2023
Machine Hours	5712	5464	5206	4934
Oil Hours	248	258	272	274
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	12.5	12.7	12.7	12.8
Base Number (BN)	mg KOH/g	9.8	10.2	10.3	10.4
Oxidation (PA)	%	73	82	80	77

CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	52	48	48	47
Sulfation (PA)	%	57	61	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	4	4
Sodium	ppm	2	2	2	2
Potassium	ppm	<1	1	3	1

WEAR METALS

Iron	ppm	3	3	2	2
Copper	ppm	<1	<1	<1	0
Lead	ppm	<1	0	2	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	<1	2	0
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	42	42	39	41
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0

ADDITIVES

Calcium	ppm	1815	1772	1763	1707
Magnesium	ppm	531	541	529	540
Zinc	ppm	955	986	963	980
Phosphorus	ppm	781	811	746	780
Barium	ppm	0	0	0	0
Boron	ppm	59	68	70	65

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: SCHGRE
Unique No: 10647148
Signed: Wes Davis
Report Date: 16 Sep 2023



CONSTRUCTION EQUIPMENT



GRAPHS

