



CONSTRUCTION EQUIPMENT

VOLVO L180H 5290 - HYDRAULIC SYSTEM



Sample No: VCP362809

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP362809	VCP402900	VCP343276	VCP377264
Sample Date	18 Oct 2023	12 Jul 2023	19 Jun 2023	13 Mar 2023
Machine Hours	6268	5615	5464	4934
Oil Hours	1922	1268	1117	587
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	SEVERE	ABNORMAL	SEVERE	ABNORMAL

SCHILDBERG CONSTRUCTION COMPANY

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OIL CONDITION

Visc @ 40°C	cSt	39.2	43.6	39.3	39.6
Acid Number (AN)	mg KOH/g	0.46	0.59	0.64	0.65



CONTAMINATION

Particles >4µm	53636	16358	47340	34474	
Particles >6µm	15082	4095	16002	8160	
Particles >14µm	405	133	1540	335	
ISO 4406:1999 (c)	23/21/16	21/19/14	23/21/18	22/20/16	
Silicon	ppm	11	10	10	11
Sodium	ppm	4	3	3	<1
Potassium	ppm	<1	<1	1	1

Diagnosis

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. The filter change at the time of sampling has been noted. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	3	3	3	10
Copper	ppm	4	3	3	4
Lead	ppm	<1	0	<1	1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	2	2	4
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2010	2153	2207	2034
Magnesium	ppm	17	19	17	15
Zinc	ppm	817	857	897	815
Phosphorus	ppm	658	678	716	657
Barium	ppm	0	0	0	0
Boron	ppm	<1	0	0	5

Depot: SCHGRE
Unique No: 10723883
Signed: Wes Davis
Report Date: 02 Nov 2023

VOLVO GRAPHS

