



CONSTRUCTION EQUIPMENT

GENERAL RV VOLVO L20H 1220370 - HYDRAULIC SYSTEM



Sample No: VCP425798
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: GENERAL RV



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SAMPLE INFORMATION

Sample Number	VCP425798	VCP425800	VCP423503	VCP386674
Sample Date	17 Jul 2023	17 Jul 2023	31 Mar 2023	22 Dec 2022
Machine Hours	0	3412	2832	2297
Oil Hours	0	0	800	500
Oil Changed	Not Changd	N/A	Not Changd	Changed
Sample Status	SEVERE	ABNORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	41.9	94.0	41.8	40.4
Acid Number (AN)	mg KOH/g	0.44	0.99	0.32	0.39

CONTAMINATION

Particles >4µm		12259	171481	1014	1451
Particles >6µm		3344	18066	300	439
Particles >14µm		382	44	31	29
ISO 4406:1999 (c)		21/19/16	25/21/13	17/15/12	18/16/12
Silicon	ppm	3	5	3	2
Sodium	ppm	2	0	0	<1
Potassium	ppm	2	1	0	0

WEAR METALS

Iron	ppm	3	4	2	5
Copper	ppm	3	<1	2	5
Lead	ppm	1	0	0	1
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	<1	0	0
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	<1	46	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	57	1676	64	50
Magnesium	ppm	4	498	10	0
Zinc	ppm	419	1130	474	387
Phosphorus	ppm	344	940	387	307
Barium	ppm	0	1	0	0
Boron	ppm	0	39	0	0

Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 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.

Depot: VOLVO0093
Unique No: 10607130
Signed: Wes Davis
Report Date: 18 Aug 2023

VOLVO GRAPHS

