

CONSTRUCTION EQUIPMENT

SWA 150612-10 VOLVO EC220EL 310769 - HYDRAULIC SYSTEM

Sample No: VCP278990

Oil Type: VOLVO SUPER HYDRAULIC OIL 46

Job No: SWA150612-10

SAMPLE IN	IFORMATION				
Sample Number		VCP278990	VCP321794	VCP289254	VCP241233
Sample Date		12 Jan 2023	26 Aug 2021	17 Sep 2020	28 Feb 2019
Machine Hours		6114	4369	3051	1013
Oil Hours		1075	1000	3000	1013
Oil Changed		Changed	Changed	Not Changd	Not Changd
Sample Status		ABNORMAL	ABNORMAL	NORMAL	NORMAL
OIL CONDITION					
Visc @ 40°C	cSt	■37.9	40.5	40.3	43.41
Acid Number (AN)	mg KOH/g	■ 0.43	■ 0.568	■ 0.719	■ 0.475

CONTAMINATION					
Water	%	NEG	NEG	NEG	NEG
Particles >4µm		22512	▲ 62796	■34527	■21576
Particles >6µm		1187	463	1175	4637
Particles > 14µr	n	75	1 01	2 5	423
ISO 4406:1999	(c)	22/17/13	23/16/14	22/17/12	22/19/16
Silicon	ppm	7	5	5	4
Sodium	ppm	5	□ 3	■3	1
Potassium	ppm	■0	- <1	1	- <1

WEAR	METALS					
Iron	ppm	□ 7	6	□4	2	
Copper	ppm	■20	2 1	1 6	1 3	
Lead	ppm	■0	< 1	- <1	< 1	
Tin	ppm	■0	<1	0	0	
Aluminum	ppm	■<1	0	- <1	- <1	
Chromium	ppm	<u>▲</u> 15	1 8	■8	1	
Molybdenum	ppm	7	2	2	0	
Nickel	ppm	■0	- <1	■ 0	0	
Titanium	ppm	<1	<1	<1	<1	
Silver	ppm	0	<1	0	0	
Manganese	ppm	■<1	< 1	0	< 1	
Vanadium	ppm	0	0	0	0	

ADDITIVES						
Calcium	ppm	670	533	521	■88	
Magnesium	ppm	47	2 0	1 9		
Zinc	ppm	495	555	561	■482	
Phosphorus	ppm	416	437	418	■393	
Barium	ppm	■0	0	□ 0	0	
Boron	ppm	17	1 9	1 6	- <1	



ULSTER COUNTY RESOURCE RECOVERY AGENCY
999 FLATBUSH AVE
KINGSTON, NY
US 12401
Contact: CHARLES WHITTAKER
cwhf@ucrra.net
T: (845)399-2686
F:

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The chromium level is abnormal. All other component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot:ULSKINUnique No:10331580Signed:Don BaldridgeReport Date:09 Feb 2023

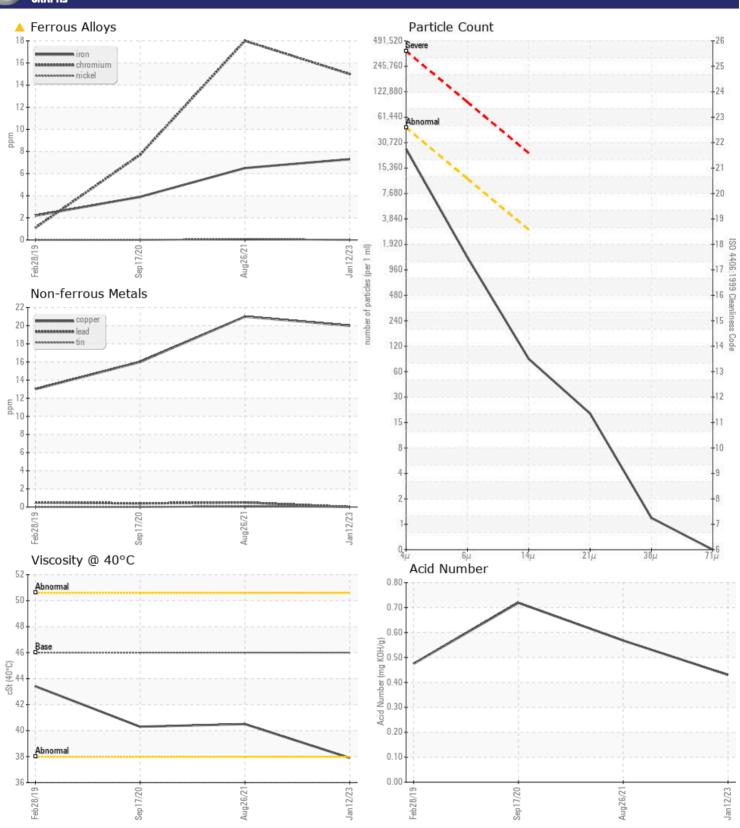


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GRAPHS



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Contact/Location: CHARLES WHITTAKER - ULSKIN