



CONSTRUCTION EQUIPMENT

VOLVO EW210D 27094 - HYDRAULIC SYSTEM



Sample No: VCP201411
Oil Type: VOLVO SUPER HYDRAULIC OIL 32
Job No:



CITY OF REGINA - FLEET SERVICES DEPT
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SAMPLE INFORMATION

Sample Number	VCP201411	VCE65518	VCE65519	VCE446309
Sample Date	15 May 2023	31 Oct 2022	31 Oct 2022	12 Feb 2022
Machine Hours	4631	3798	3798	2814
Oil Hours	0	0	0	2814
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	38.4	38.6	38.3	32.9
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CONTAMINATION

Particles >4µm	832	15735	3768	26542	
Particles >6µm	206	3679	425	5067	
Particles >14µm	17	215	6	385	
ISO 4406:1999 (c)	17/15/11	21/19/15	19/16/10	22/20/16	
Silicon	ppm	4	4	4	3
Sodium	ppm	1	1	1	1
Potassium	ppm	1	<1	<1	<1



WEAR METALS

Iron	ppm	2	2	2	8
Copper	ppm	6	8	7	2
Lead	ppm	<1	1	1	2
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	2
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	<1	0	<1	<1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	93	115	116	85
Magnesium	ppm	1	<1	<1	4
Zinc	ppm	598	635	629	273
Phosphorus	ppm	486	552	554	332
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	<1	48

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.

Depot: CITREG
Unique No: 5632564
Signed: Wes Davis
Report Date: 31 Aug 2023

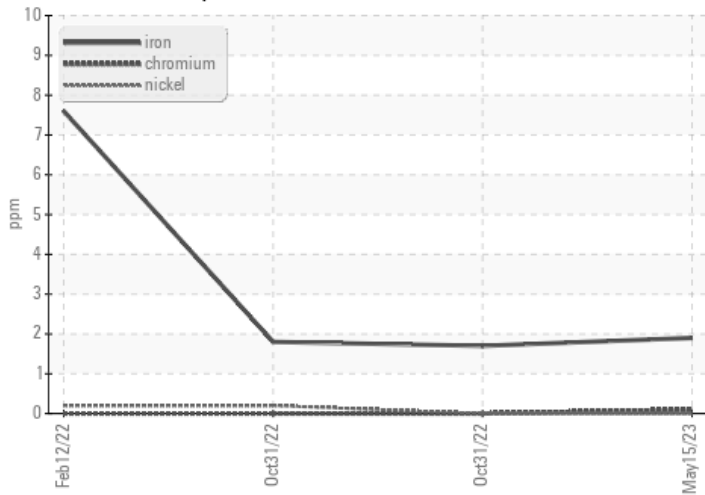


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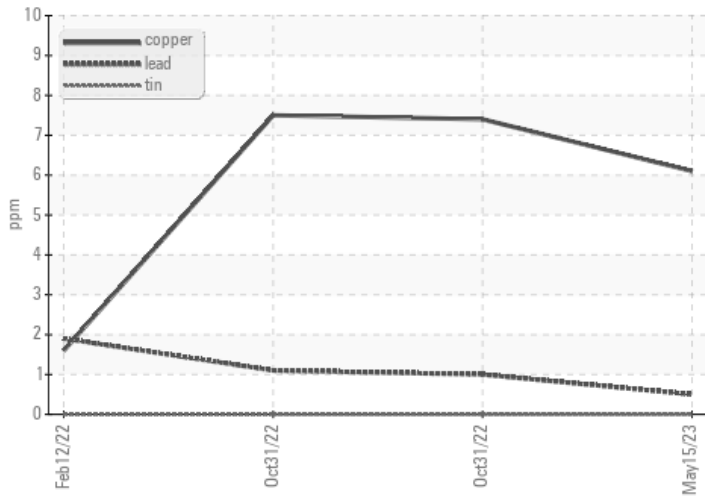


GRAPHS

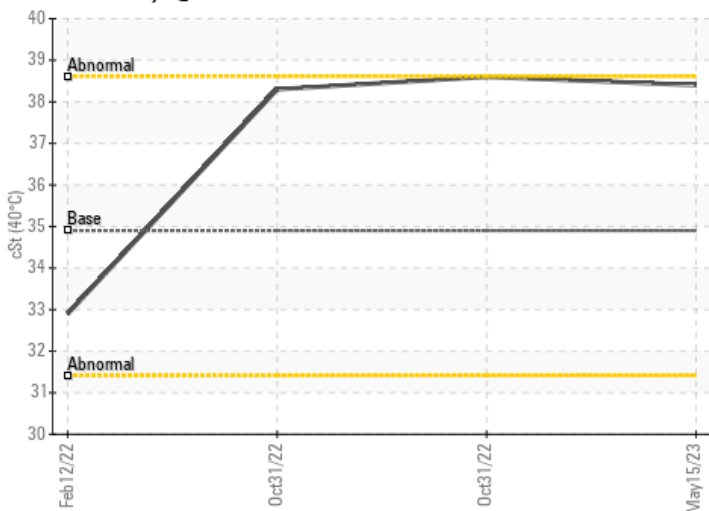
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

