



CONSTRUCTION EQUIPMENT

W214403 VOLVO L110H 10365 - HYDRAULIC SYSTEM



Sample No: VCP275996
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: W214403



SAMPLE INFORMATION

Sample Number	VCP275996	VCP294992	VC104242	VCP220230
Sample Date	23 Jul 2020	31 Jan 2020	05 Dec 2019	05 Nov 2018
Machine Hours	9102	10272	8109	7016
Oil Hours	1000	2000	2000	3000
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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



OIL CONDITION

Visc @ 40°C	cSt	39.7	38.6	39.6	37.34
Acid Number (AN)	mg KOH/g	0.336	0.334	0.299	0.360



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		776	4330	6290	7480
Particles >6µm		150	347	1446	2253
Particles >14µm		11	16	73	193
ISO 4406:1999 (c)		17/14/11	19/16/11	20/18/13	20/18/15
Silicon	ppm	3	2	2	4
Sodium	ppm	1	3	1	2
Potassium	ppm	0	0	<1	0

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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	4	6	4	7
Copper	ppm	1	2	2	3
Lead	ppm	<1	<1	<1	1
Tin	ppm	0	<1	0	0
Aluminum	ppm	0	<1	0	<1
Chromium	ppm	2	2	2	4
Molybdenum	ppm	1	1	0	3
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	96	102	126	141
Magnesium	ppm	0	5	5	10
Zinc	ppm	387	417	409	400
Phosphorus	ppm	304	323	326	338
Barium	ppm	0	0	0	0
Boron	ppm	6	5	4	6

Depot: ULSKIN
Unique No: 9150012
Signed: Wes Davis
Report Date: 25 Aug 2020

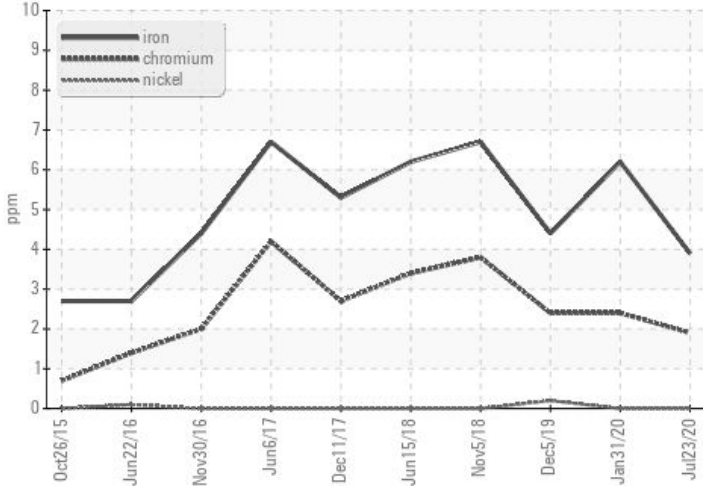


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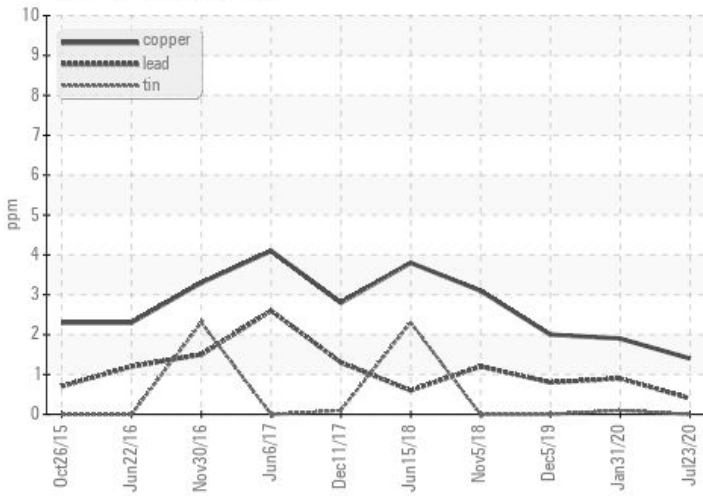


GRAPHS

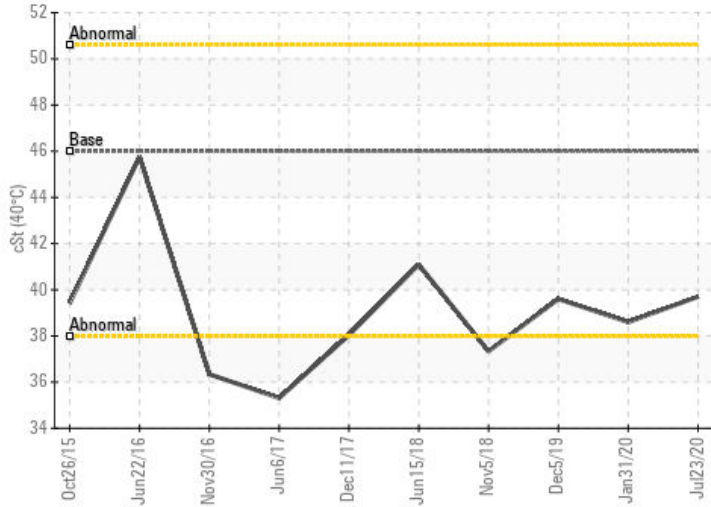
Ferrous Alloys



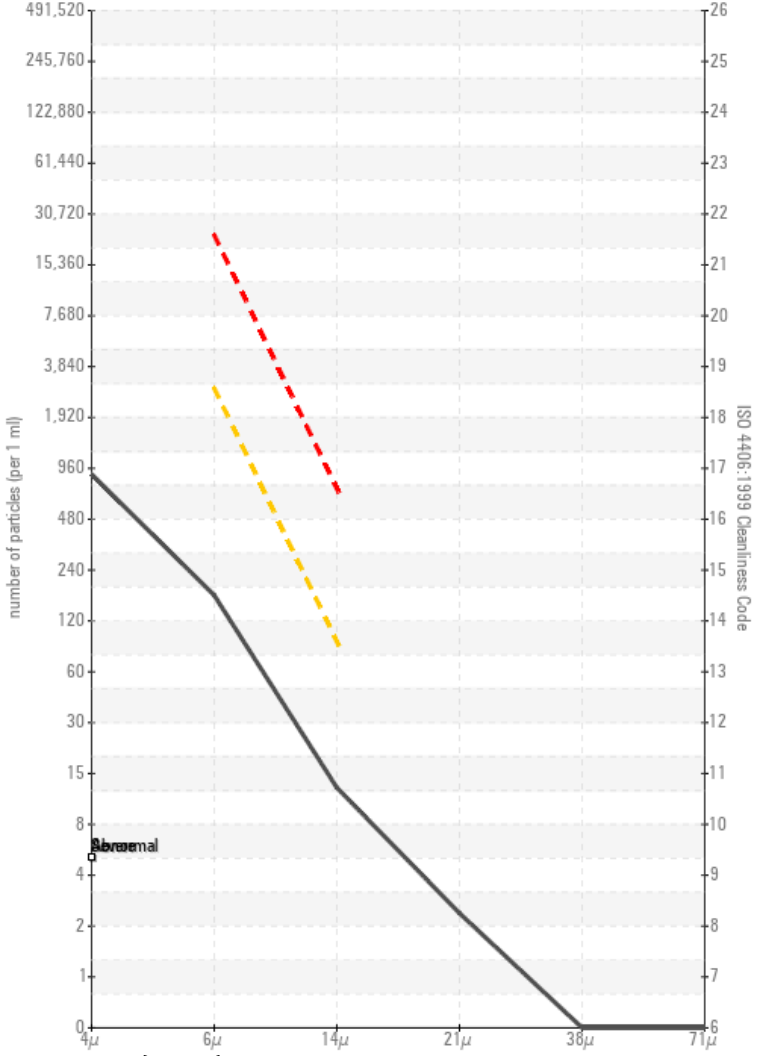
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

