



CONSTRUCTION EQUIPMENT

646429 VOLVO L220H 3368 - HYDRAULIC SYSTEM



Sample No: VCP432373
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 646429



SAMPLE INFORMATION

Sample Number	VCP432373	VCP415562	VCP369997	VCP377465
Sample Date	12 Dec 2023	18 Jul 2023	13 Oct 2022	10 May 2022
Machine Hours	4672	3780	2139	1160
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

BLUE GOOSE GROWERS
 16059 W ORANGE AVE
 FT PIERCE, FL
 US 34945
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 40°C	cSt	44.2	41.0	41.3	42.0
Acid Number (AN)	mg KOH/g	0.43	0.36	0.39	0.40

T: (772)461-3020
 F:

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		30786	35782	80366	17513
Particles >6µm		1169	1152	▲ 2963	1135
Particles >14µm		70	68	18	33
ISO 4406:1999 (c)		22/17/13	22/17/13	24/19/11	21/17/12
Silicon	ppm	1	1	2	<1
Sodium	ppm	2	4	2	<1
Potassium	ppm	2	0	0	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	2	6	3	2
Copper	ppm	1	3	2	2
Lead	ppm	<1	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	0	0
Chromium	ppm	<1	1	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	<1	<1	0

ADDITIVES

Calcium	ppm	87	50	38	50
Magnesium	ppm	13	1	0	0
Zinc	ppm	460	431	454	423
Phosphorus	ppm	350	350	356	359
Barium	ppm	0	0	0	0
Boron	ppm	<1	0	0	1

Depot: BLUFOR
Unique No: 10791211
Signed: Wes Davis
Report Date: 18 Dec 2023

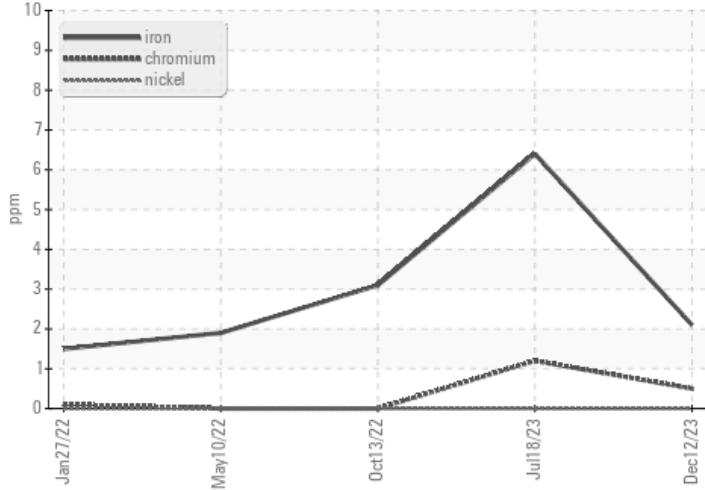


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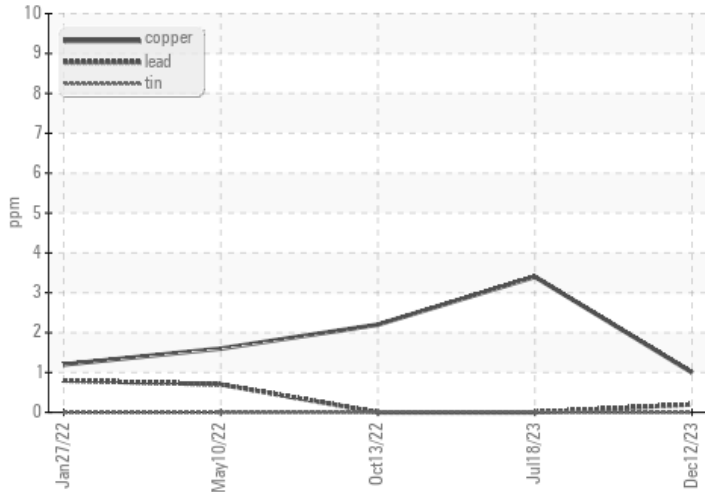


GRAPHS

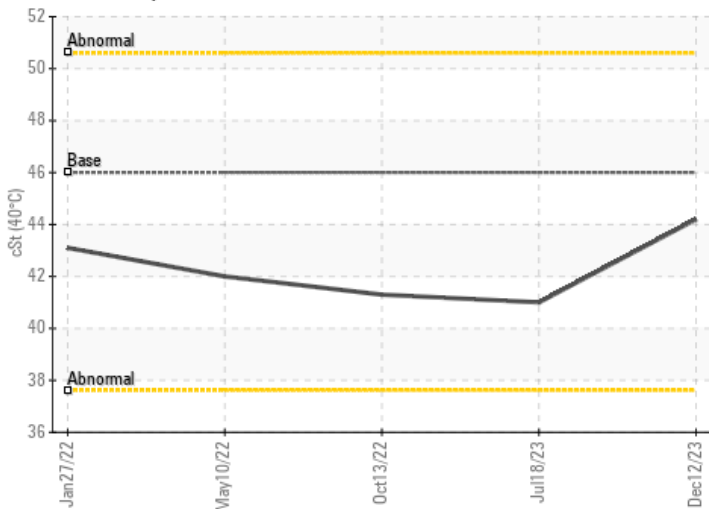
Ferrous Alloys



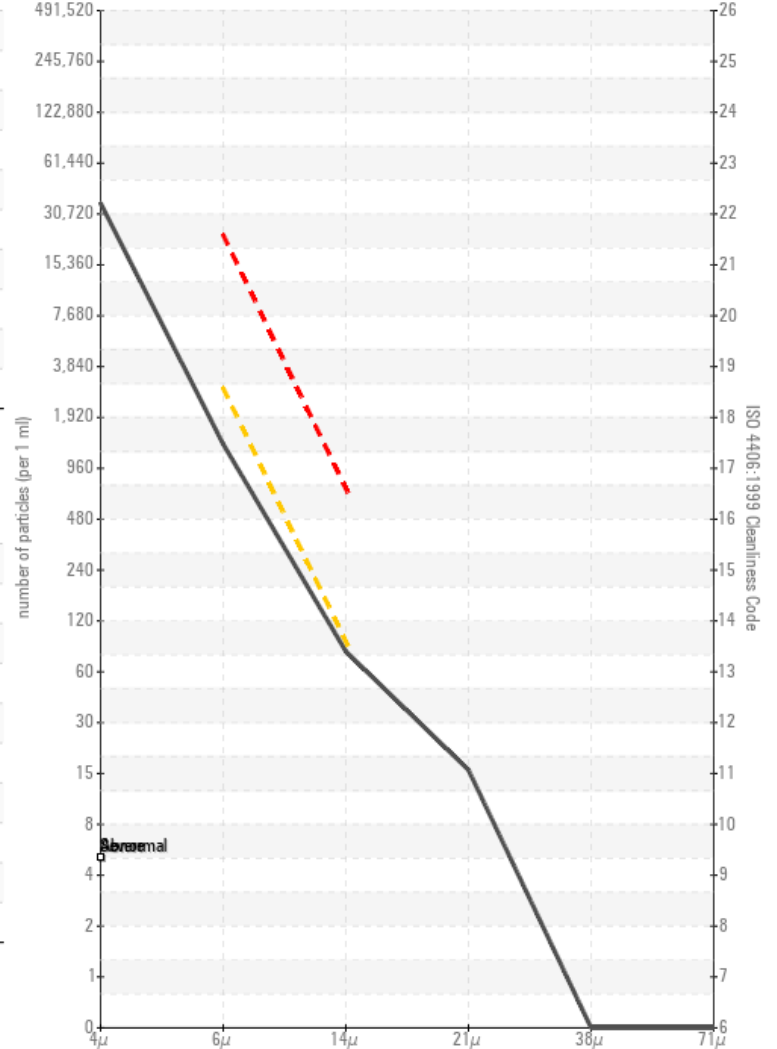
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

