



CONSTRUCTION EQUIPMENT

TRIPLE M METAL LP 392280 VOLVO L220H 2461 - HYDRAULIC SYSTEM



Sample No: VCP392078
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 392280



SAMPLE INFORMATION

Sample Number	VCP392078	VCP380082	VCE175557	VCE243673
Sample Date	08 Feb 2024	04 Dec 2023	12 Jul 2019	12 Mar 2018
Machine Hours	24447	23552	10718	4800
Oil Hours	0	0	0	0
Oil Changed	Not Changed	Not Changed	Changed	Changed
Sample Status	ABNORMAL	SEVERE	ABNORMAL	NORMAL

STRONGCO EQUIPMENT (CE)

1051 Heritage Rd.
 Burlington, ON
 CA L7L 4Y1
 Contact: Sue Hooton
 shooton@strongco.com
 T: (905)331-3835
 F: (905)643-6077

OIL CONDITION

Visc @ 40°C	cSt	45.4	36.0	40.1	38.2
-------------	-----	-------------	------	------	------

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		11575	77509	39515	4471
Particles >6µm		2887	18086	8343	107
Particles >14µm		241	1238	595	5
ISO 4406:1999 (c)		21/19/15	23/21/17	22/20/16	19/14/10
Silicon	ppm	<1	<1	3	1
Sodium	ppm	<1	1	4	3
Potassium	ppm	<1	<1	0	<1

Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

WEAR METALS

Iron	ppm	3	6	11	8
Copper	ppm	2	2	3	3
Lead	ppm	<1	<1	2	1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	3	8	4
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	31	26	55	39
Magnesium	ppm	<1	0	2	1
Zinc	ppm	421	392	415	411
Phosphorus	ppm	358	321	333	331
Barium	ppm	0	<1	0	0
Boron	ppm	0	2	<1	<1

Depot: VOLVO0252
Unique No: 5724147
Signed: Wes Davis
Report Date: 13 Feb 2024

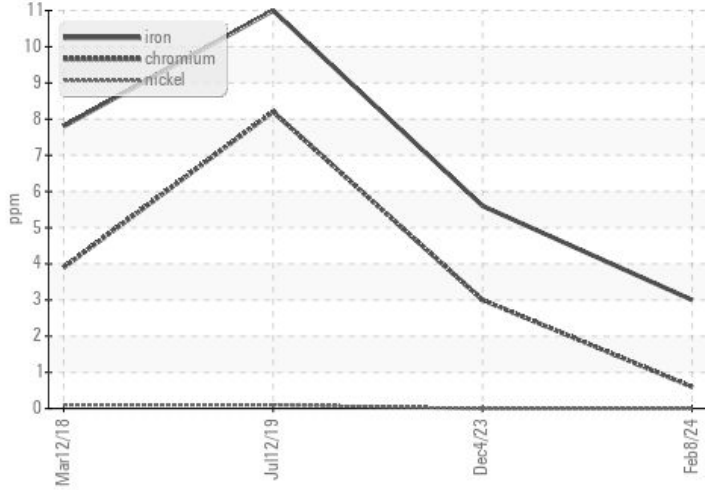


CONSTRUCTION EQUIPMENT

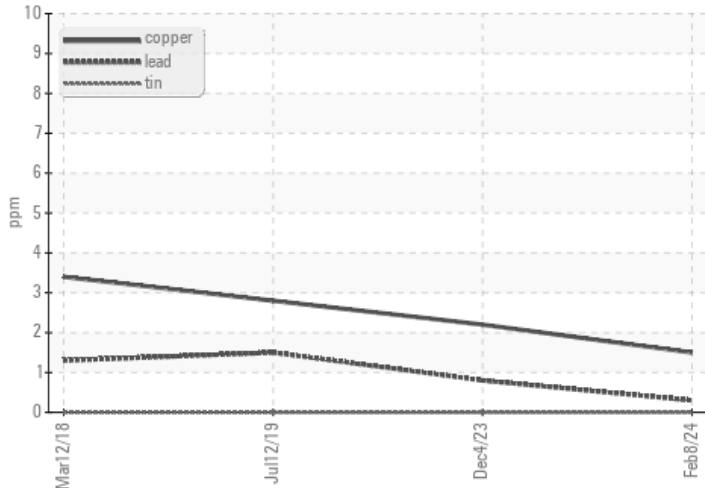


GRAPHS

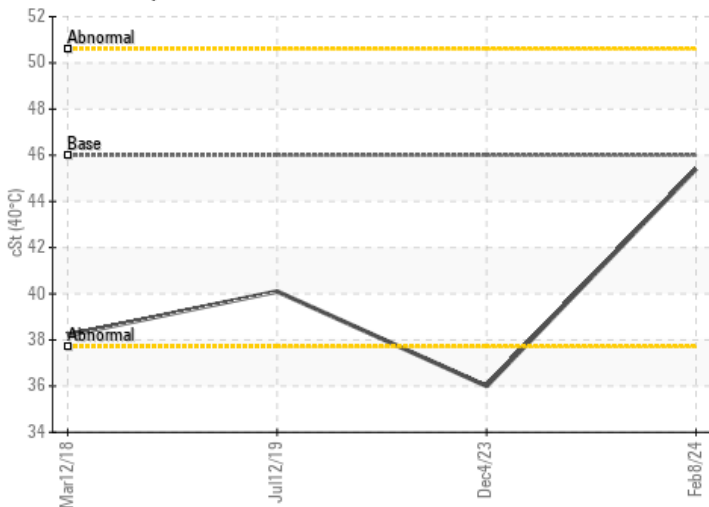
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

