



CONSTRUCTION EQUIPMENT

702529 BULK EXPRESS SENNEBOGEN 821 821.0.2274 - HYDRAULIC SYSTEM



Sample No: VCP449820
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 702529 BULK EXPRESS



SAMPLE INFORMATION

Sample Number	VCP449820	VCP387491	VCP367843	---
Sample Date	03 May 2024	31 Oct 2022	25 Oct 2022	---
Machine Hours	10306	6330	6327	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	ATTENTION	ATTENTION	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	64.66	35.7	35.8	---
Acid Number (AN)	mg KOH/g	0.49	0.56	0.63	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		7172	5810	1469	---
Particles >6µm		803	1840	306	---
Particles >14µm		55	147	19	---
ISO 4406:1999 (c)		20/17/13	20/18/14	18/15/11	---
Silicon	ppm	<1	1	<1	---
Sodium	ppm	2	2	0	---
Potassium	ppm	0	<1	1	---

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

WEAR METALS

Iron	ppm	0	13	12	---
Copper	ppm	0	2	2	---
Lead	ppm	0	1	<1	---
Tin	ppm	0	<1	0	---
Aluminum	ppm	0	<1	<1	---
Chromium	ppm	0	3	2	---
Molybdenum	ppm	1	0	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	31	425	374	---
Magnesium	ppm	7	2	2	---
Zinc	ppm	423	510	470	---
Phosphorus	ppm	326	421	378	---
Barium	ppm	0	2	<1	---
Boron	ppm	0	<1	0	---

Depot: VOLVO0096
Unique No: 11018651
Signed: Don Baldrige
Report Date: 16 May 2024

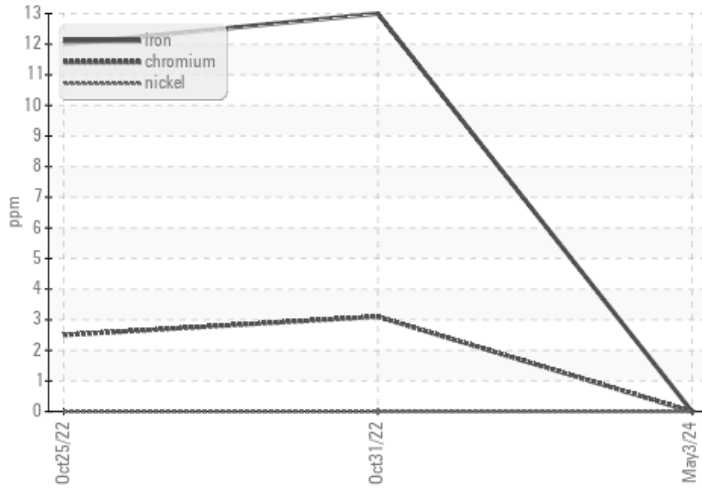


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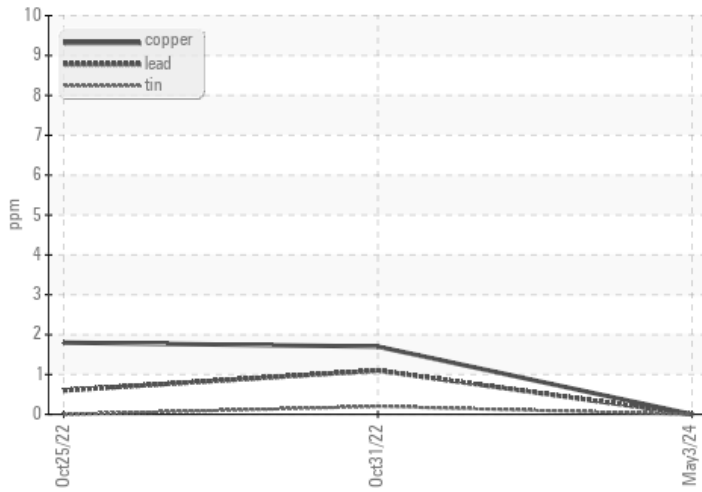


GRAPHS

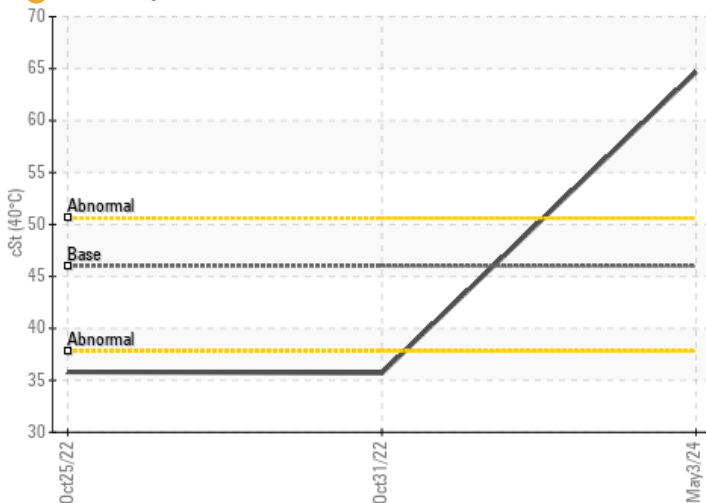
Ferrous Alloys



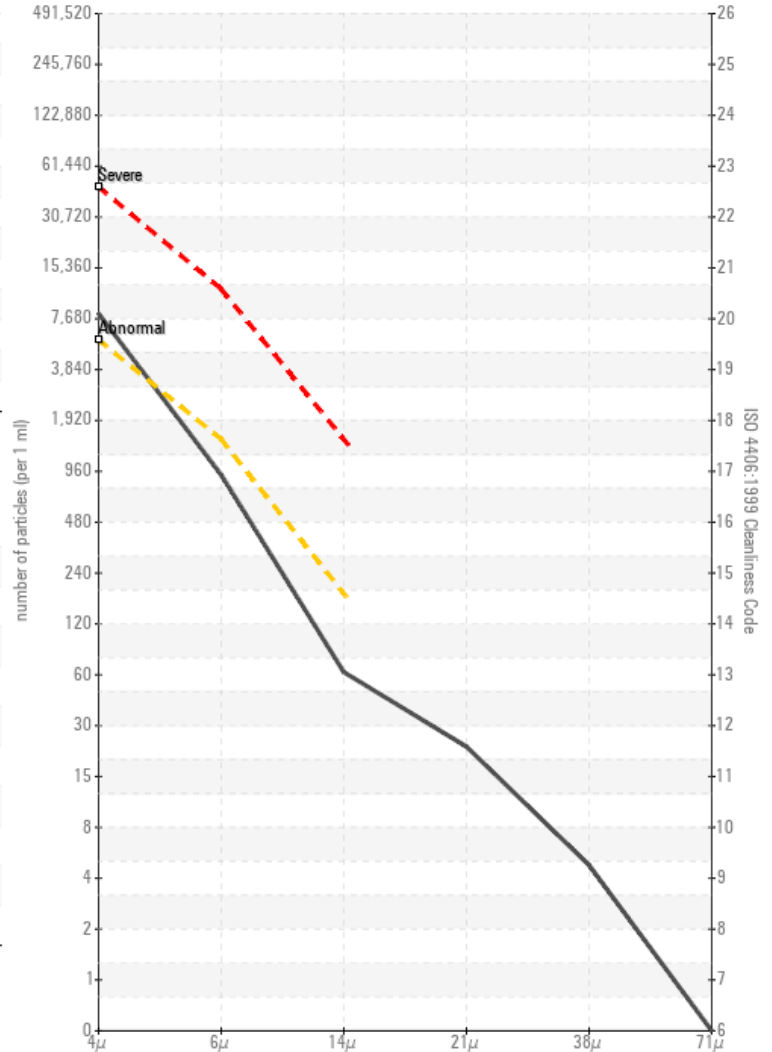
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

