



CONSTRUCTION EQUIPMENT

529257 VOLVO L90H 625378 - HYDRAULIC SYSTEM



Sample No: VCP443725
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 529257



SAMPLE INFORMATION

Sample Number	VCP443725	VCP427229	VCP398434	VCP326695
Sample Date	05 Apr 2024	03 Aug 2023	27 Jan 2023	06 Oct 2021
Machine Hours	7764	5525	4638	2098
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	ATTENTION	ATTENTION	ATTENTION

FORESTRY RESOURCES

4353 MICHIGAN LINK
 FORT MYERS, FL
 US 33916
 Contact: COREY MUELLER



OIL CONDITION

Visc @ 40°C	cSt	54.8	52.0	59.4	49.3
Acid Number (AN)	mg KOH/g	0.47	0.31	0.28	0.327

T: (239)872-1856
 F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 32140	● 6641	● 7244	● 7373
Particles >6µm		▲ 11902	■ 856	■ 1064	■ 294
Particles >14µm		▲ 2264	■ 14	■ 71	■ 15
ISO 4406:1999 (c)		22/21/18	20/17/11	20/17/13	20/15/11
Silicon	ppm	■ 6	■ 2	■ 2	■ 1
Sodium	ppm	■ 2	■ 2	■ <1	■ <1
Potassium	ppm	■ 0	■ 0	■ 0	■ <1

Diagnosis

No corrective action is recommended at this time. The 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 high amount of particulates present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	■ 3	■ 2	■ 2	■ 4
Copper	ppm	■ 0	■ <1	■ <1	■ 4
Lead	ppm	■ 0	■ <1	■ <1	■ 1
Tin	ppm	■ 0	■ 0	■ 0	■ <1
Aluminum	ppm	■ 0	■ <1	■ 0	■ 0
Chromium	ppm	■ 3	■ 1	■ 1	■ 2
Molybdenum	ppm	■ 9	■ 2	■ 4	■ 2
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	■ 0	■ 0	■ 0	■ 0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	■ 426	■ 287	■ 229	■ 63
Magnesium	ppm	■ 45	■ 17	■ 20	■ 7
Zinc	ppm	■ 439	■ 419	■ 309	■ 359
Phosphorus	ppm	■ 382	■ 364	■ 282	■ 291
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 16	■ 5	■ 4	■ 1

Depot: FORFORTFL
Unique No: 10968981
Signed: Don Baldrige
Report Date: 12 Apr 2024

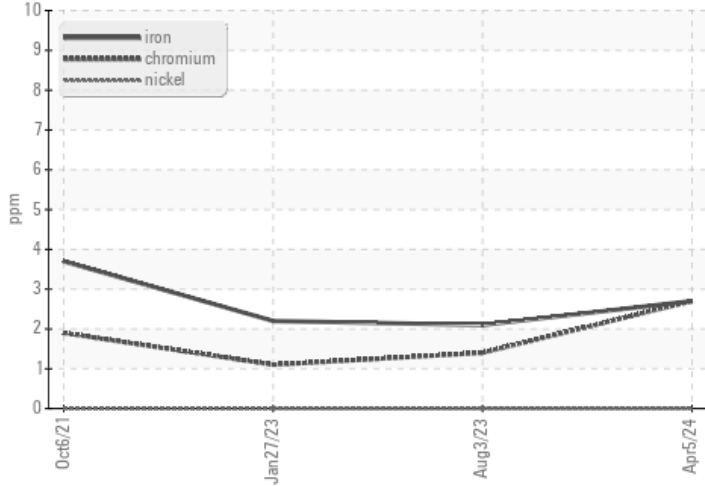


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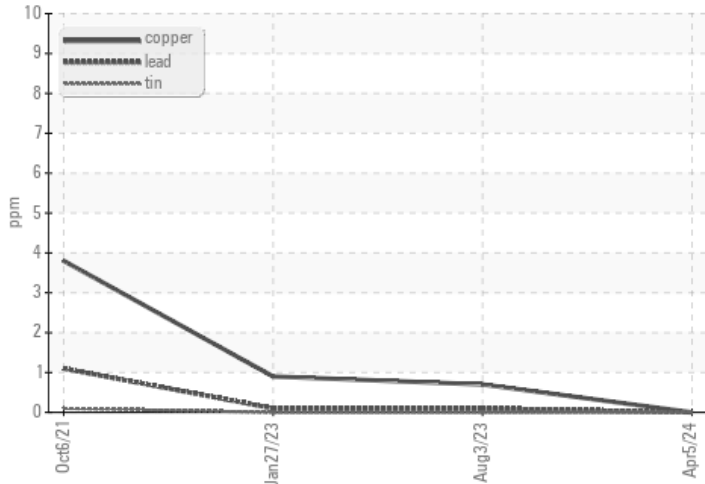


GRAPHS

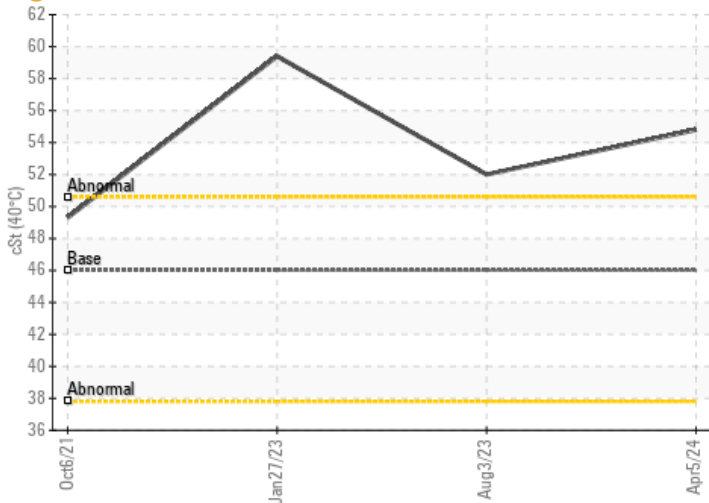
Ferrous Alloys



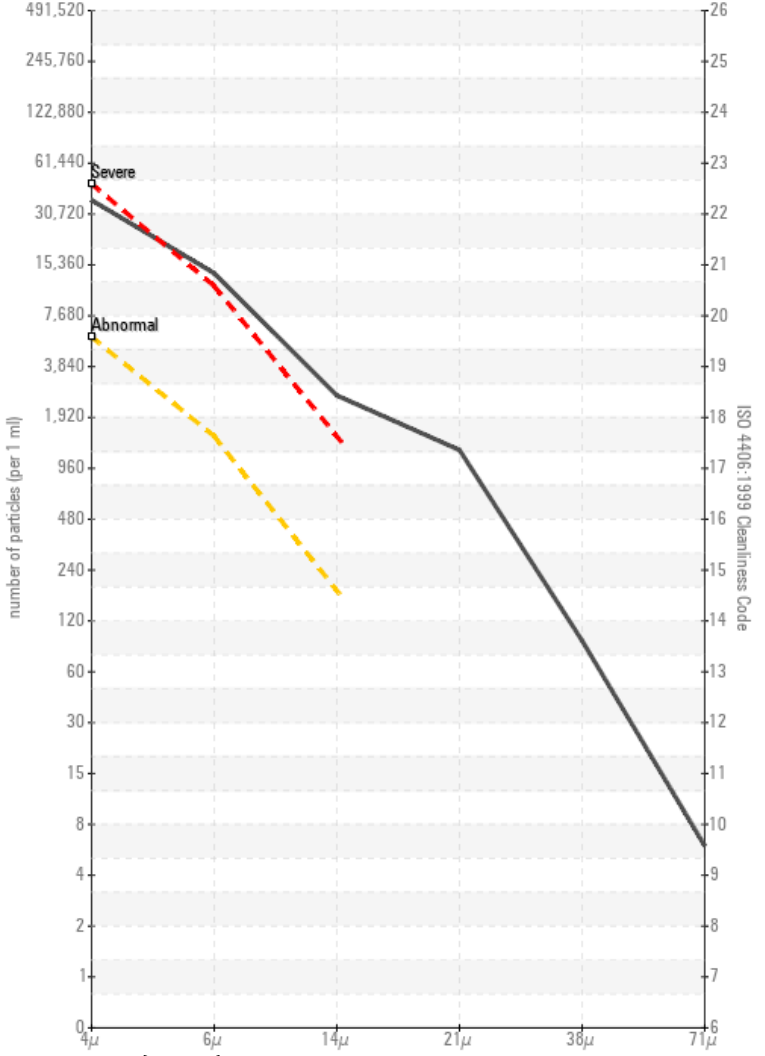
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

