



CONSTRUCTION EQUIPMENT

UPAP-ORLANDO 9469 617406 VOLVO L90G 617406 - HYDRAULIC SYSTEM



Sample No: VCP401170
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 9469



SAMPLE INFORMATION

Sample Number	VCP401170	VCP417701	VCP385390	VCP356923
Sample Date	08 Jan 2024	11 Jul 2023	28 Dec 2022	05 Jul 2022
Machine Hours	14951	14237	13731	13038
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ATTENTION	ABNORMAL	NORMAL	ATTENTION

U-PULL-AND-PAY LLC - ORLANDO
 1157 JETSTREAM DRIVE
 ORLANDO, FL
 US 32824
 Contact: NILDA RIOS
 nilda.rios@upullandpay.com
 T: (407)473-3798
 F: (407)856-4029



OIL CONDITION

Visc @ 40°C	cSt	▲ 37.3	■ 47.6	■ 48.8	■ 49.5
Acid Number (AN)	mg KOH/g	■ 0.611	■ 0.35	■ 0.30	■ 0.33



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		25255	29058	3783	7583
Particles >6µm		▲ 4031	▲ 8820	■ 324	■ 1913
Particles >14µm		■ 80	▲ 605	■ 15	▲ 106
ISO 4406:1999 (c)		22/19/13	22/20/16	19/16/11	20/18/14
Silicon	ppm	■ 2	■ 4	■ 4	■ 3
Sodium	ppm	■ 0	■ 2	■ 2	■ <1
Potassium	ppm	■ 1	■ 0	■ 0	■ 0

Diagnosis

No corrective action is recommended at this time. 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. The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	■ 9	■ 11	■ 7	■ 5
Copper	ppm	■ 2	■ 2	■ 2	■ 1
Lead	ppm	■ <1	■ 0	■ <1	■ 0
Tin	ppm	■ <1	■ 0	■ 0	■ 0
Aluminum	ppm	■ 2	■ 0	■ <1	■ 0
Chromium	ppm	■ 2	■ 2	■ <1	■ <1
Molybdenum	ppm	■ <1	■ <1	■ <1	■ <1
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 0	■ <1	■ 0	■ 0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	■ 39	■ 69	■ 76	■ 63
Magnesium	ppm	■ 2	■ 5	■ 5	■ 2
Zinc	ppm	■ 417	■ 427	■ 434	■ 434
Phosphorus	ppm	■ 351	■ 345	■ 346	■ 347
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 0	■ 0	■ 0	■ 0

Depot: UPUORL
Unique No: 10829402
Signed: Jonathan Hester
Report Date: 16 Jan 2024

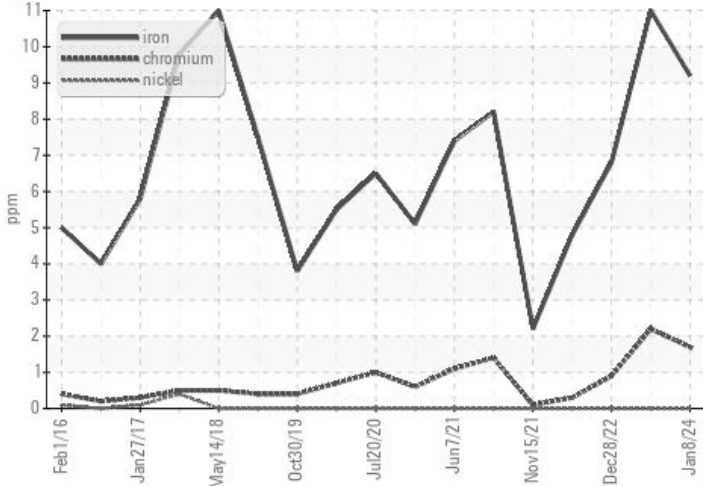


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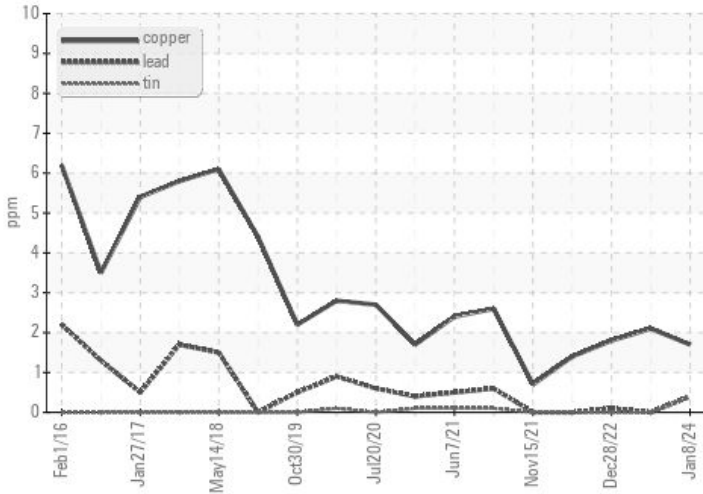


GRAPHS

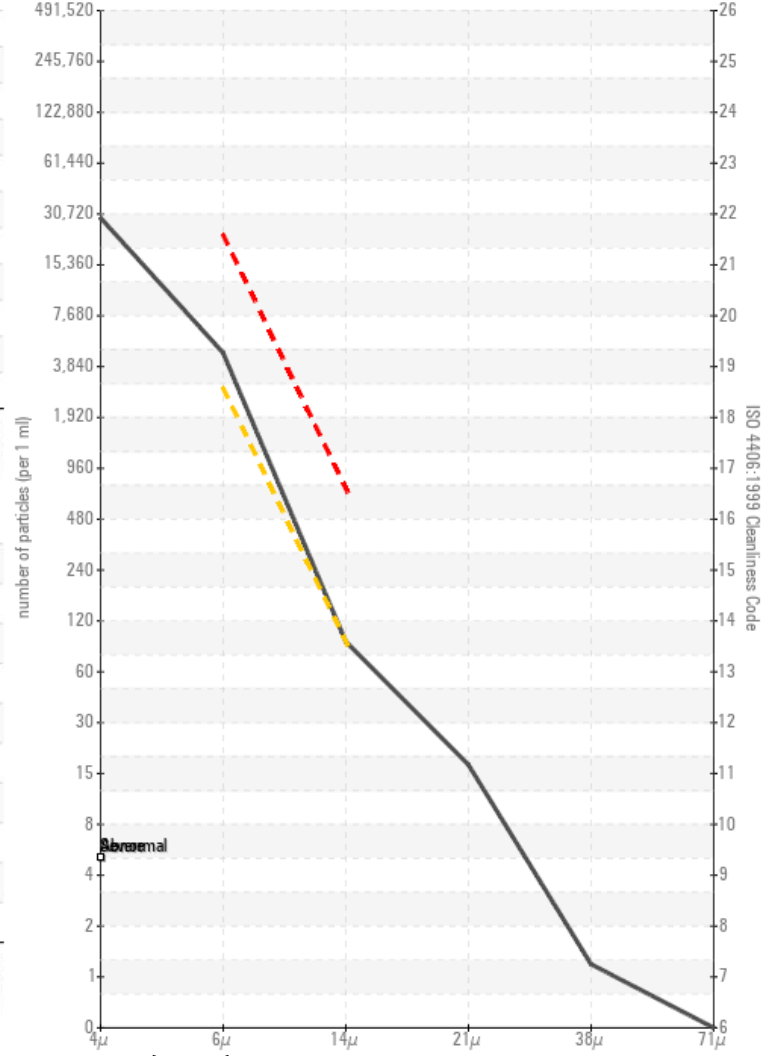
Ferrous Alloys



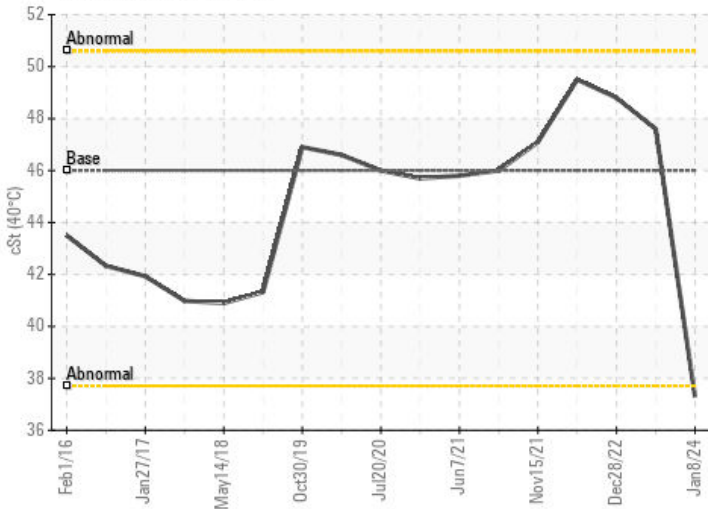
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number

