CONSTRUCTION EQUIPMENT

UPAP-ORLANDO 579902 VOLVO L90G 617406 - HYDRAULIC SYSTEM

Sample No: VCP417701
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 579902

U-PULL-AND-PAY LLC - ORLANDO
1157 JETSTREAM DRIVE
ORLANDO, FL
US 32824
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SAMPLE INFORMATION

Sample Number		**VCP417701**	VCP385390	VCP356923	VCP336808
Sample Date		**11 Jul 2023**	28 Dec 2022	05 Jul 2022	15 Nov 2021
Machine Hours		**14237**	13731	13038	11712
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Not Changd	Not Changd
Sample Status		**ABNORMAL**	NORMAL	ATTENTION	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**47.6**	48.8	49.5	47.1
Acid Number (AN)	mg KOH/g	**0.35**	0.30	0.33	0.299

CONTAMINATION

Particles >4µm		**29058**	3783	7583	2712
Particles >6µm		▲ **8820**	324	1913	554
Particles >14µm		▲ **605**	15	▲ 106	40
ISO 4406:1999 (c)		**22/20/16**	19/16/11	20/18/14	19/16/12
Silicon	ppm	**4**	4	3	2
Sodium	ppm	**2**	2	<1	1
Potassium	ppm	**0**	0	0	0

WEAR METALS

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

ADDITIVES

Calcium	ppm	**69**	76	63	61
Magnesium	ppm	**5**	5	2	2
Zinc	ppm	**427**	434	434	410
Phosphorus	ppm	**345**	346	347	352
Barium	ppm	**0**	0	0	0
Boron	ppm	**0**	0	0	0

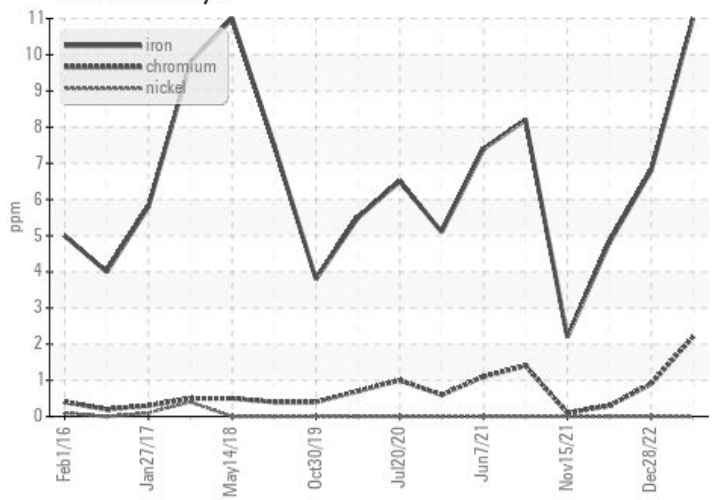
Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

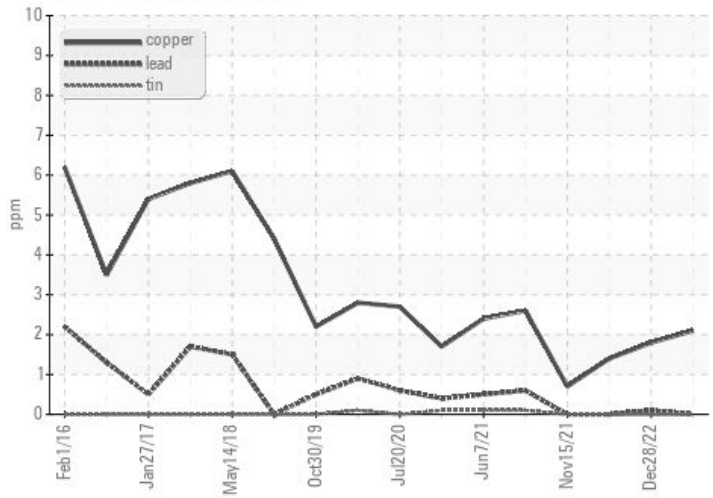
Depot: UPUORL
Unique No: 10559882
Signed: Wes Davis
Report Date: 17 Jul 2023

GRAPHS

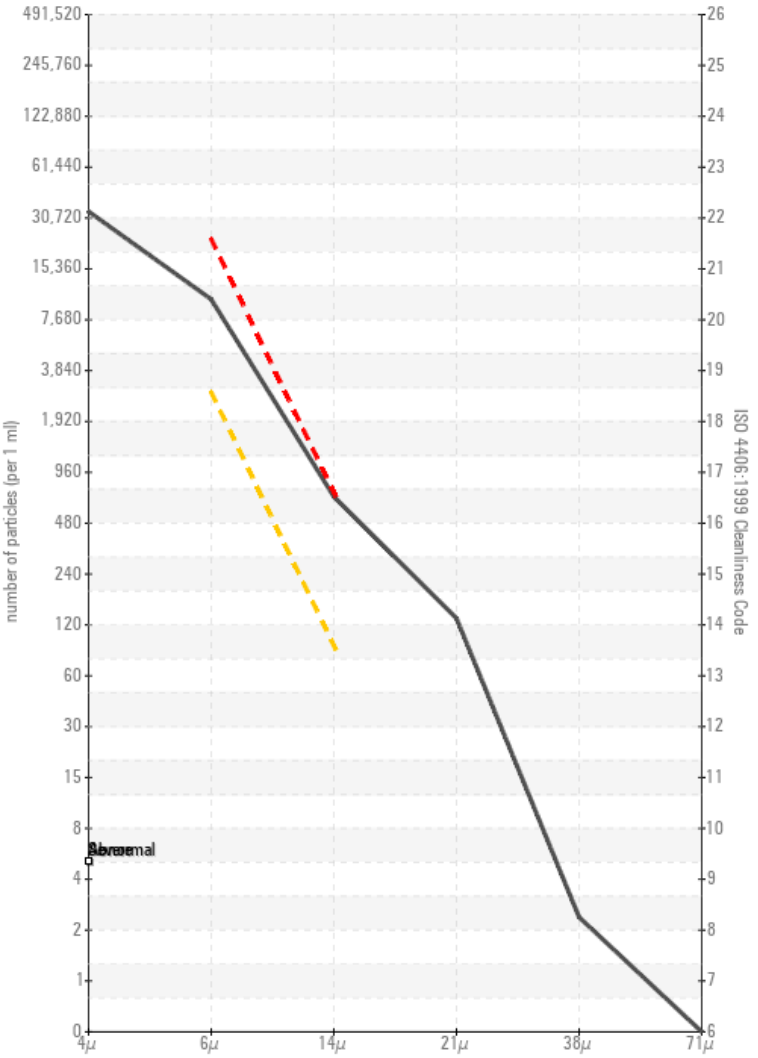
Ferrous Alloys



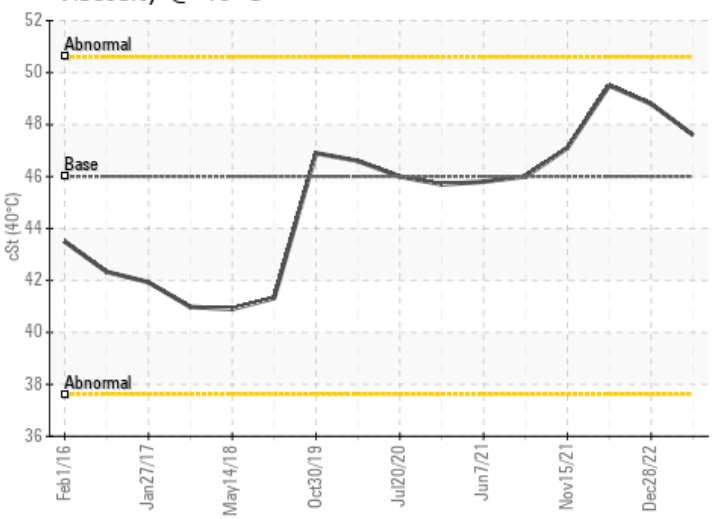
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number