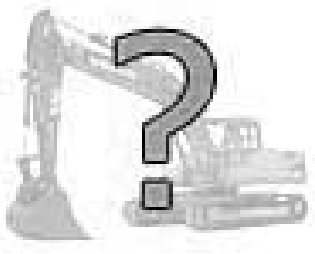
CONSTRUCTION EQUIPMENT
593950 ALJON 600 30124 - HYDRAULIC SYSTEM

Sample No: VCP424999
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 593950



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SAMPLE INFORMATION

Sample Number		**VCP424999**	VCP427108	VCP398660	VCP399680
Sample Date		**10 Aug 2023**	14 Jun 2023	19 Apr 2023	15 Feb 2023
Machine Hours		**3205**	2952	2673	2232
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Not Changd	Not Changd
Sample Status		**NORMAL**	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**36.8**	36.9	37.85	39.0
Acid Number (AN)	mg KOH/g	**0.45**	0.40	0.38	0.43

CONTAMINATION

Particles >4µm		**1174**	1450	1183	4542
Particles >6µm		**352**	519	263	1076
Particles >14µm		**39**	96	22	28
ISO 4406:1999 (c)		**17/16/12**	18/16/14	17/15/12	19/17/12
Silicon	ppm	**2**	1	2	2
Sodium	ppm	**0**	0	0	0
Potassium	ppm	**<1**	2	0	1

WEAR METALS

Iron	ppm	**8**	6	4	5
Copper	ppm	**12**	13	11	11
Lead	ppm	**<1**	<1	0	<1
Tin	ppm	**<1**	<1	0	<1
Aluminum	ppm	**0**	0	<1	0
Chromium	ppm	**0**	0	0	<1
Molybdenum	ppm	**2**	2	1	2
Nickel	ppm	**0**	0	0	0
Titanium	ppm	**0**	0	0	0
Silver	ppm	**<1**	<1	0	0
Manganese	ppm	**0**	0	<1	0
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**79**	85	75	79
Magnesium	ppm	**5**	5	4	5
Zinc	ppm	**440**	461	415	440
Phosphorus	ppm	**344**	348	350	335
Barium	ppm	**0**	0	0	0
Boron	ppm	**0**	0	0	0

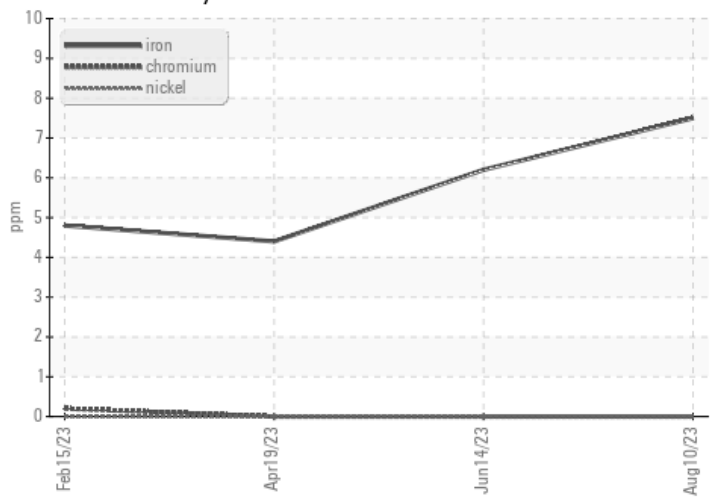
Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

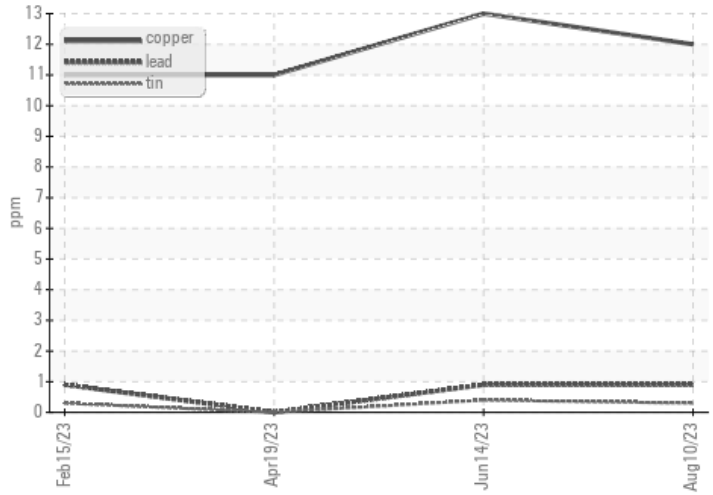
Depot: VOLVO0096
Unique No: 10604736
Signed: Jonathan Hester
Report Date: 16 Aug 2023

GRAPHS

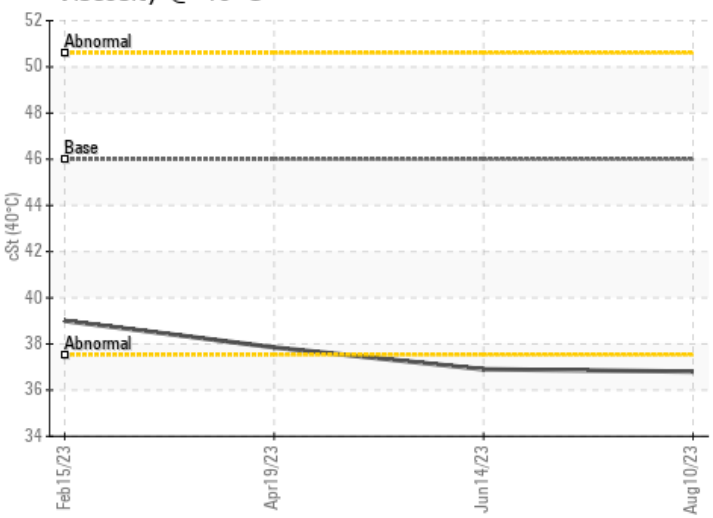
Ferrous Alloys



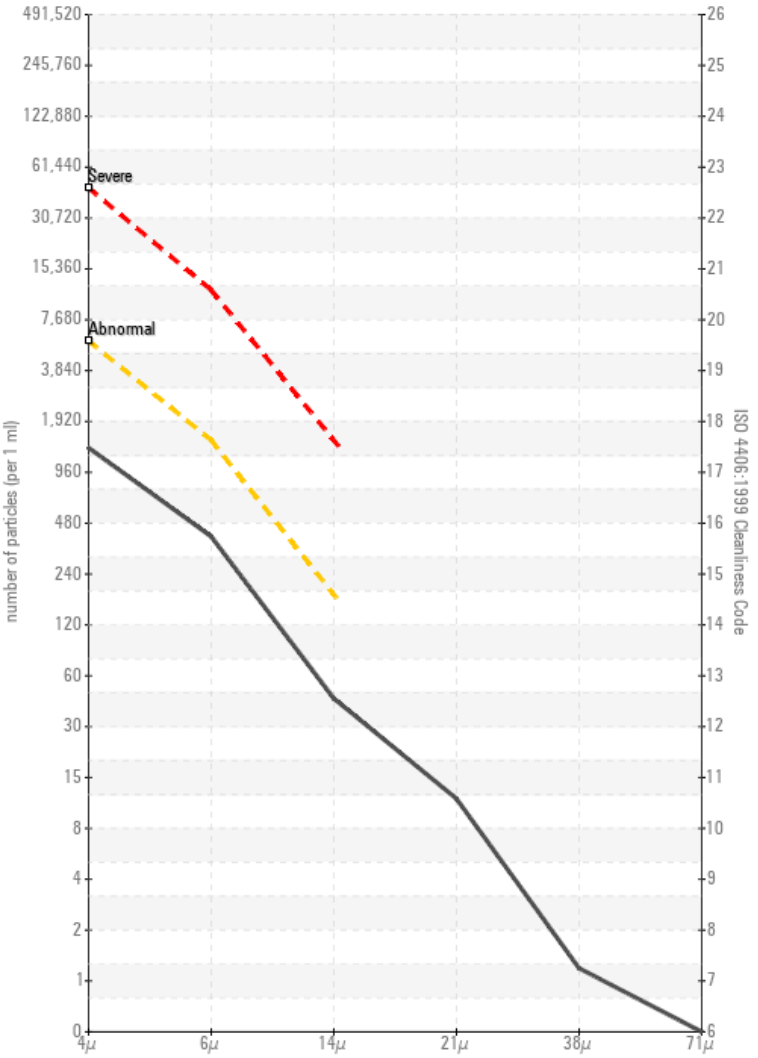
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number