



CONSTRUCTION EQUIPMENT

701295 PRIMORIS VOLVO A40G 352509 - HYDRAULIC SYSTEM



Sample No: VCP445396
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 701295 PRIMORIS



SAMPLE INFORMATION

Sample Number	VCP445396	VCP430500	VCP424804	VCP365216
Sample Date	12 Apr 2024	16 Nov 2023	25 Apr 2023	16 Aug 2022
Machine Hours	6123	5500	4282	3145
Oil Hours	2000	1500	4282	500
Oil Changed	Not Changd	N/A	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 40°C	cSt	43.7	43.9	43.8	43.9
Acid Number (AN)	mg KOH/g	0.26	0.23	0.35	0.36



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2258	3200	4024	20739
Particles >6µm		410	572	1138	3491
Particles >14µm		25	28	77	85
ISO 4406:1999 (c)		18/16/12	19/16/12	19/17/13	22/19/14
Silicon	ppm	2	2	8	6
Sodium	ppm	1	<1	2	<1
Potassium	ppm	0	<1	<1	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.



WEAR METALS

Iron	ppm	5	4	10	8
Copper	ppm	2	<1	2	7
Lead	ppm	<1	<1	5	4
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	1	2	1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	<1	2
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	89	87	68	120
Magnesium	ppm	2	4	12	2
Zinc	ppm	439	419	441	435
Phosphorus	ppm	327	345	343	348
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO0093
Unique No: 11047135
Signed: Wes Davis
Report Date: 28 May 2024

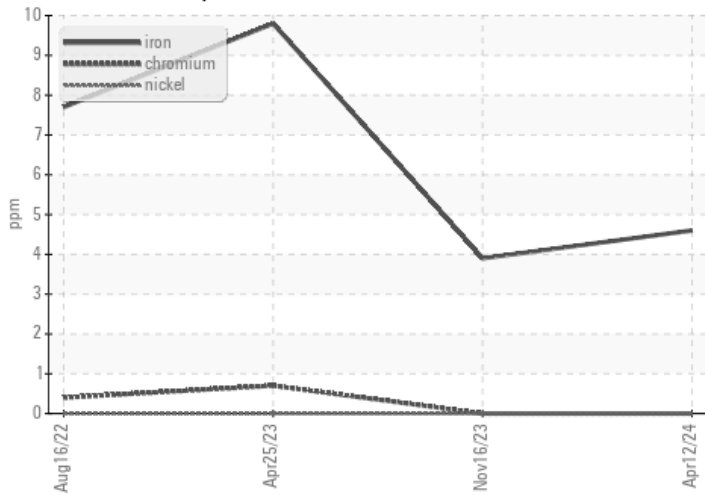


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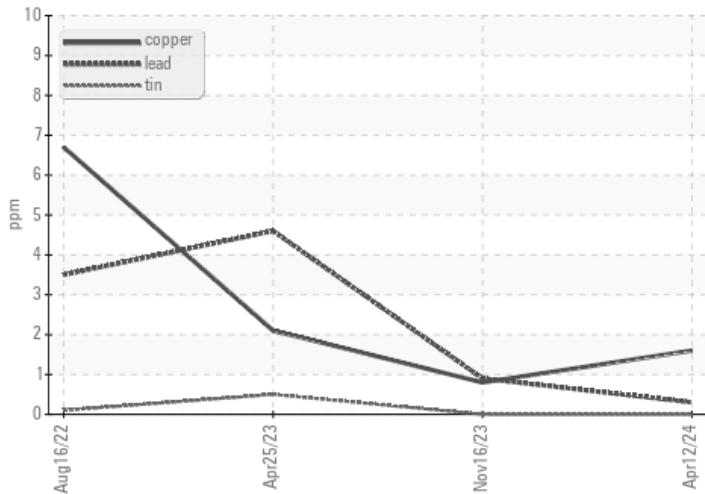


GRAPHS

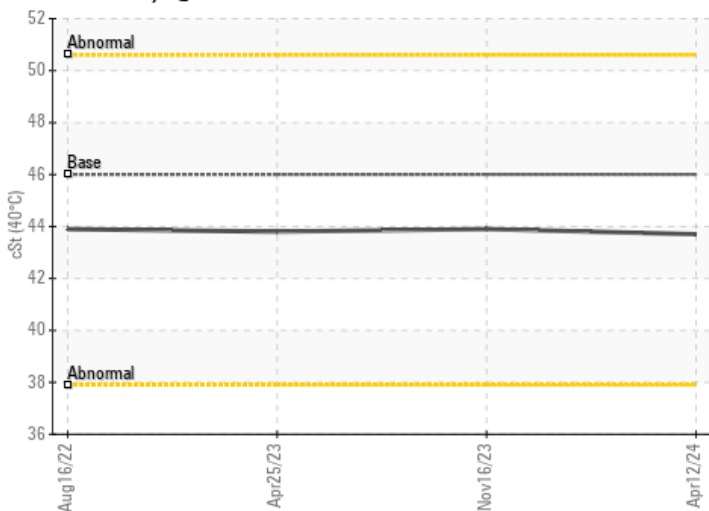
Ferrous Alloys



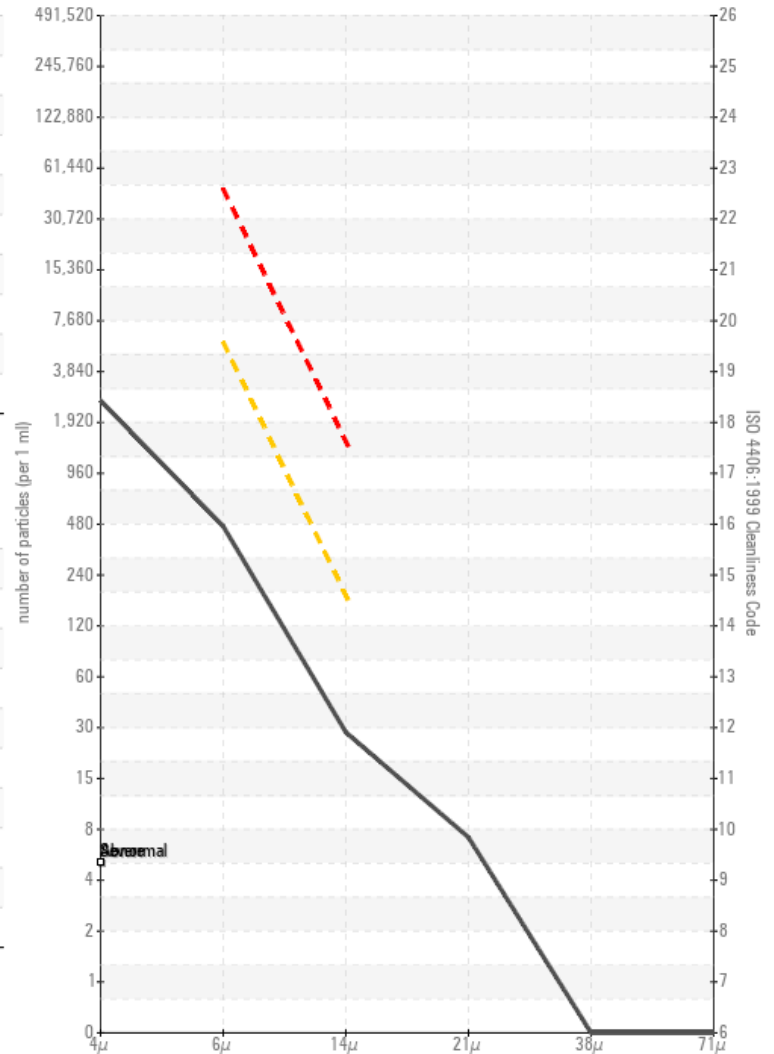
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

