



CONSTRUCTION EQUIPMENT

646466 VOLVO A30G 740270 - HYDRAULIC SYSTEM



Sample No: VCP431788
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 646466



SAMPLE INFORMATION

Sample Number	VCP431788	VCP385826	VCP375991	VCP326453
Sample Date	13 Dec 2023	23 Nov 2022	01 Jun 2022	23 Sep 2021
Machine Hours	11945	10327	9479	8623
Oil Hours	4000	1500	1479	1500
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ATTENTION	ATTENTION	ATTENTION

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:

OIL CONDITION

Visc @ 40°C	cSt	▲ 54.6	▲ 59.0	▲ 58.1	■ 47.4
Acid Number (AN)	mg KOH/g	■ 0.42	■ 0.42	■ 0.38	■ 0.400

Diagnosis

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2768	6380	1330	8676
Particles >6µm		■ 144	■ 993	■ 304	■ 2629
Particles >14µm		■ 22	■ 62	■ 34	▲ 264
ISO 4406:1999 (c)		19/14/12	20/17/13	18/15/12	20/19/15
Silicon	ppm	▲ 55	■ 2	■ 1	■ 5
Sodium	ppm	■ 4	■ 1	■ <1	■ 5
Potassium	ppm	■ 2	■ 0	■ 0	■ 0

WEAR METALS

Iron	ppm	■ 3	■ 4	■ 4	■ 14
Copper	ppm	■ 3	■ 2	■ 2	■ 7
Lead	ppm	■ <1	■ <1	■ <1	■ 2
Tin	ppm	■ <1	■ <1	■ <1	■ 0
Aluminum	ppm	■ 1	■ <1	■ <1	■ 2
Chromium	ppm	■ 0	■ 0	■ 0	■ <1
Molybdenum	ppm	■ 9	■ 5	■ 2	■ 1
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	■ <1	■ 0	■ 0	■ <1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	■ 270	■ 144	■ 82	■ 110
Magnesium	ppm	■ 45	■ 62	■ 12	■ 4
Zinc	ppm	■ 390	■ 492	■ 424	■ 424
Phosphorus	ppm	■ 346	■ 390	■ 349	■ 331
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 13	■ <1	■ 3	■ 0

Depot: RIPTAM
Unique No: 10846186
Signed: Doug Bogart
Report Date: 26 Jan 2024

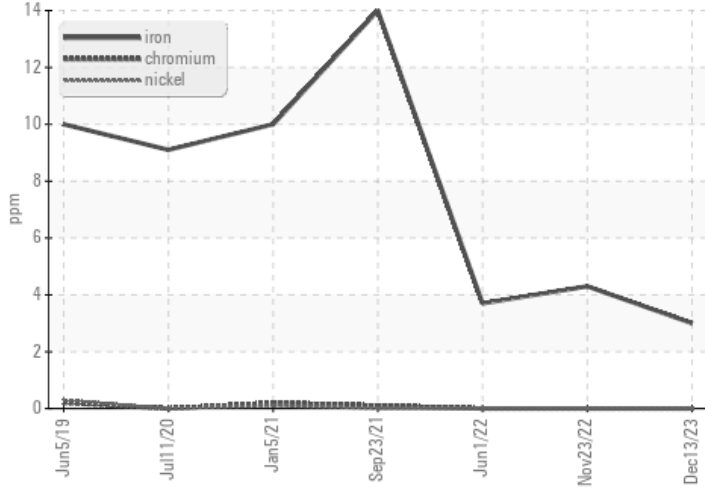


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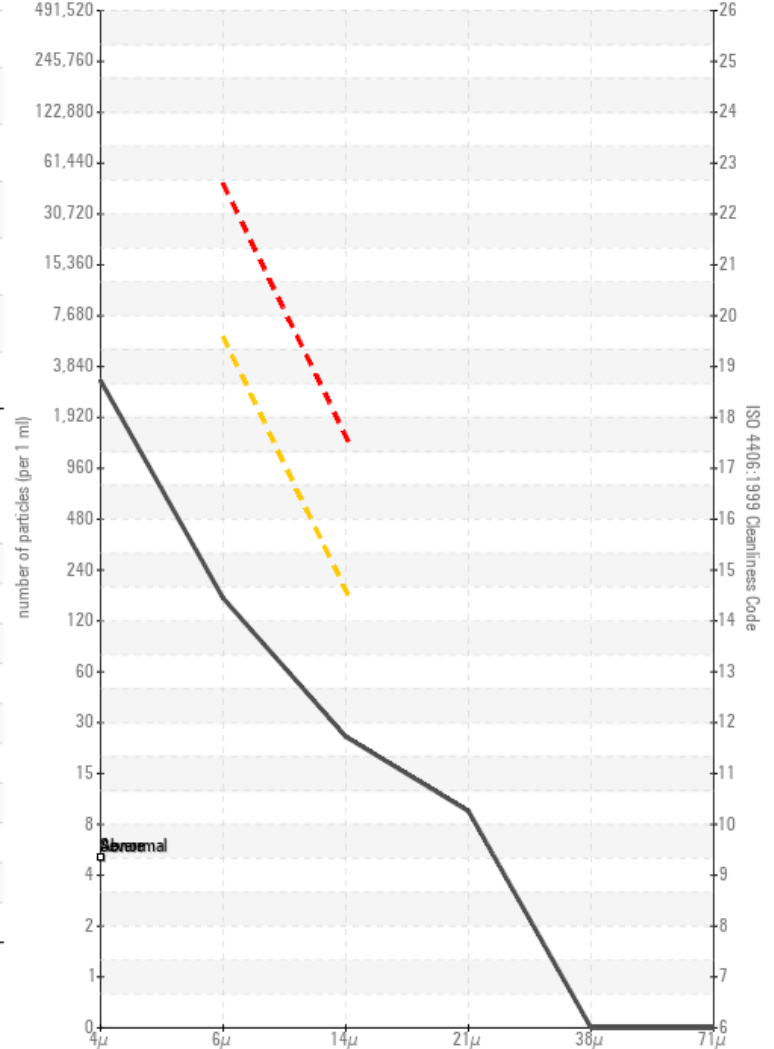


GRAPHS

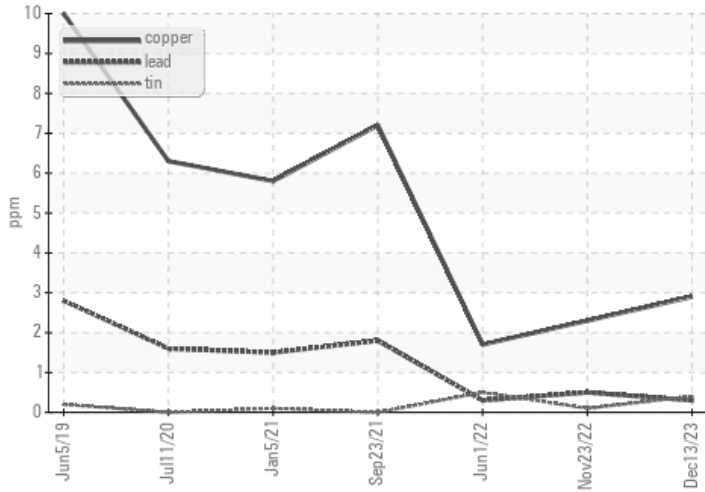
Ferrous Alloys



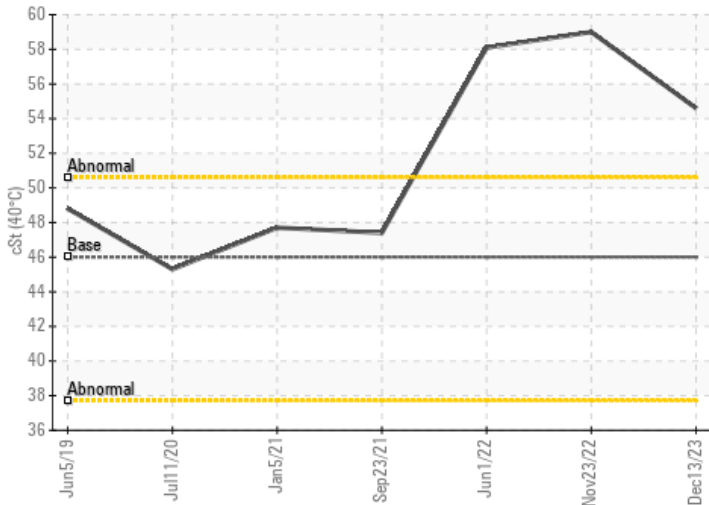
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

