



CONSTRUCTION EQUIPMENT

VOLVO A30G 752144 - HYDRAULIC SYSTEM



Sample No: VCP440606
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP440606	VCP393909	VCP353961	VCP332940
Sample Date	02 Oct 2023	17 Mar 2023	18 Aug 2022	08 Mar 2022
Machine Hours	5308	4310	3336	2383
Oil Hours	0	4310	500	1500
Oil Changed	N/A	Changed	Not Changd	Not Changd
Sample Status	ABNORMAL	ATTENTION	ABNORMAL	ABNORMAL

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

OIL CONDITION

Visc @ 40°C	cSt	44.5	44.4	45.3	45.1
Acid Number (AN)	mg KOH/g	0.38	0.36	0.41	0.40

CONTAMINATION

Particles >4µm		---	4136	11023	99675
Particles >6µm		---	1721	3803	44664
Particles >14µm		---	239	433	8941
ISO 4406:1999 (c)		---	19/18/15	21/19/16	24/23/20
Silicon	ppm	4	4	4	4
Sodium	ppm	2	1	3	1
Potassium	ppm	0	0	0	0

Diagnosis
 We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	8	7	10	11
Copper	ppm	4	3	7	6
Lead	ppm	2	1	3	3
Tin	ppm	0	0	<1	<1
Aluminum	ppm	1	<1	2	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	0	0

ADDITIVES

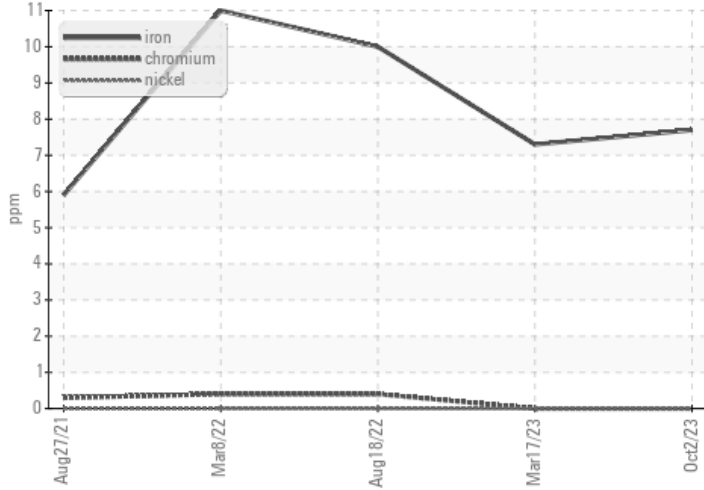
Calcium	ppm	73	60	98	80
Magnesium	ppm	1	10	3	2
Zinc	ppm	447	365	435	455
Phosphorus	ppm	352	298	355	395
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: RIPTAM
Unique No: 10699629
Signed: Jonathan Hester
Report Date: 20 Oct 2023

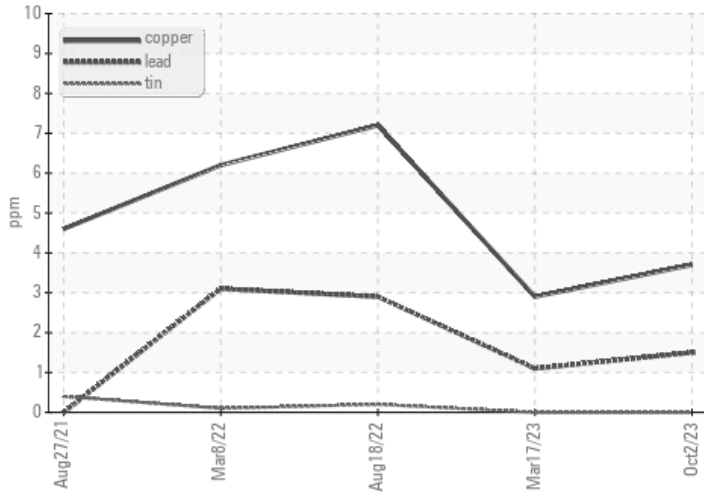


GRAPHS

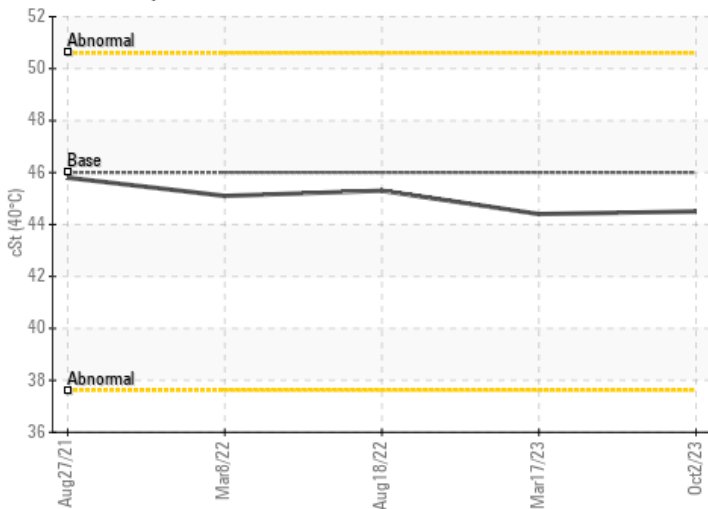
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

