



CONSTRUCTION EQUIPMENT

VOLVO L120H 632529 - HYDRAULIC SYSTEM



Sample No: VCP435539
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP435539	VCP365154	VCP298943	VCP255006
Sample Date	07 Dec 2023	08 Jun 2023	17 Mar 2021	26 Mar 2020
Machine Hours	17016	15919	8400	3539
Oil Hours	0	0	986	0
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ATTENTION	NORMAL	ATTENTION

FORESTRY RESOURCES
 4353 MICHIGAN LINK
 FORT MYERS, FL
 US 33916
 Contact: COREY MUELLER

OIL CONDITION

Visc @ 40°C	cSt	48.5	56.6	50.7	47.4
Acid Number (AN)	mg KOH/g	0.46	0.49	0.321	0.576

T: (239)872-1856
 F:

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		---	21682	2672	2945
Particles >6µm		---	2683	334	856
Particles >14µm		---	81	10	101
ISO 4406:1999 (c)		---	22/19/14	19/16/10	19/17/14
Silicon	ppm	2	2	3	4
Sodium	ppm	2	2	0	1
Potassium	ppm	0	2	0	<1

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. 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 acceptable for the time in service.

WEAR METALS

Iron	ppm	0	5	4	3
Copper	ppm	2	<1	2	1
Lead	ppm	0	0	1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	0	0	0	0
Chromium	ppm	1	4	2	<1
Molybdenum	ppm	2	8	29	83
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	1	<1
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	127	231	173	95
Magnesium	ppm	9	16	9	12
Zinc	ppm	439	492	457	424
Phosphorus	ppm	355	423	394	390
Barium	ppm	0	0	0	<1
Boron	ppm	4	8	3	1

Depot: FORFOTFL
Unique No: 10780273
Signed: Don Baldrige
Report Date: 13 Dec 2023

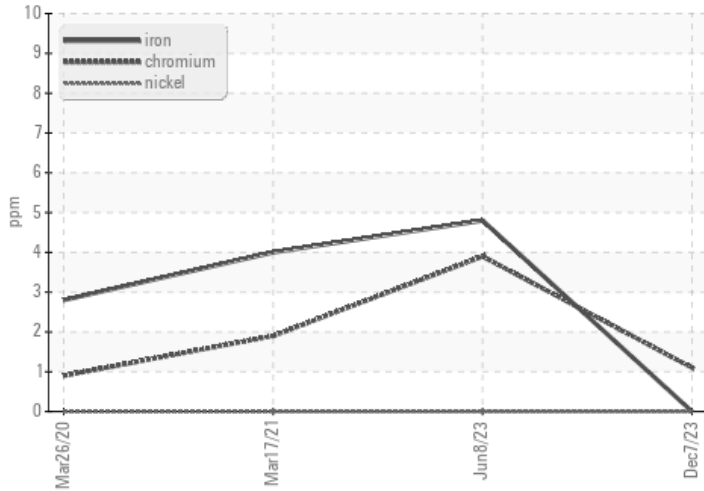


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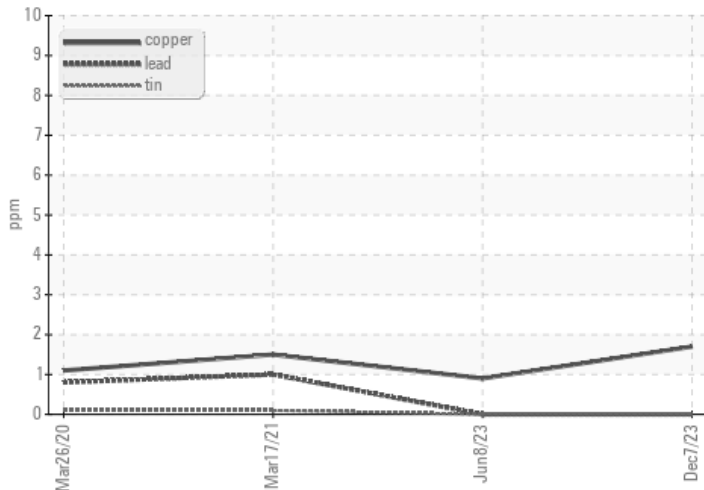


GRAPHS

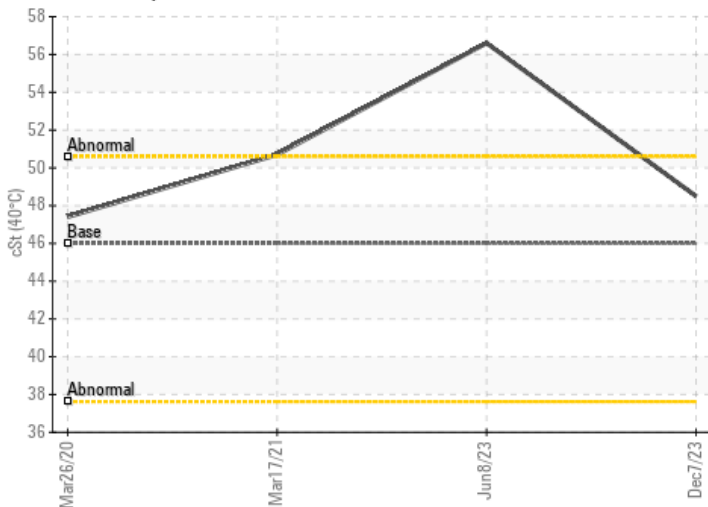
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

