



CONSTRUCTION EQUIPMENT

VOLVO L150G NR23026 - HYDRAULIC SYSTEM



Sample No: VCP442895
Oil Type: ESSO NUTO H ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP442895	VCP436347	VCP396628	VCP399942
Sample Date	02 Feb 2024	05 Dec 2023	05 Jun 2023	24 Mar 2023
Machine Hours	13240	13014	12465	12252
Oil Hours	1226	1013	465	250
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	45.5	44.6	44.6	44.5
Acid Number (AN)	mg KOH/g	0.34	0.32	0.34	0.38



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		---	1266	688	622
Particles >6µm		---	336	209	262
Particles >14µm		---	50	17	53
ISO 4406:1999 (c)		---	17/16/13	17/15/11	16/15/13
Silicon	ppm	<1	2	<1	<1
Sodium	ppm	<1	0	<1	<1
Potassium	ppm	0	2	0	<1

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. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	0	1	<1	<1
Copper	ppm	<1	<1	<1	0
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	<1	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	1	2	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	94	50	87	62
Magnesium	ppm	17	0	4	9
Zinc	ppm	463	504	503	495
Phosphorus	ppm	379	386	402	385
Barium	ppm	0	0	0	0
Boron	ppm	4	0	0	0

Depot: MARDIC
Unique No: 10874645
Signed: Jonathan Hester
Report Date: 14 Feb 2024

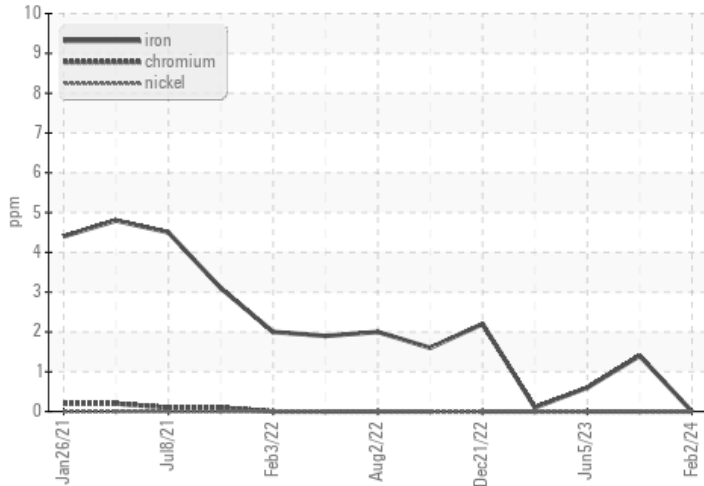


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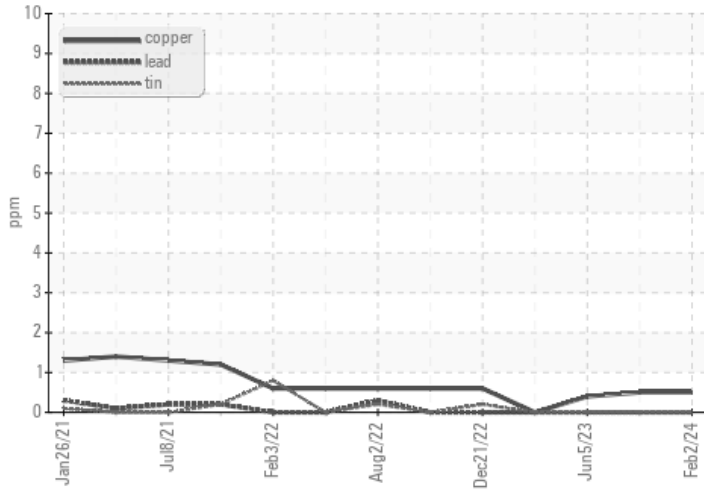


GRAPHS

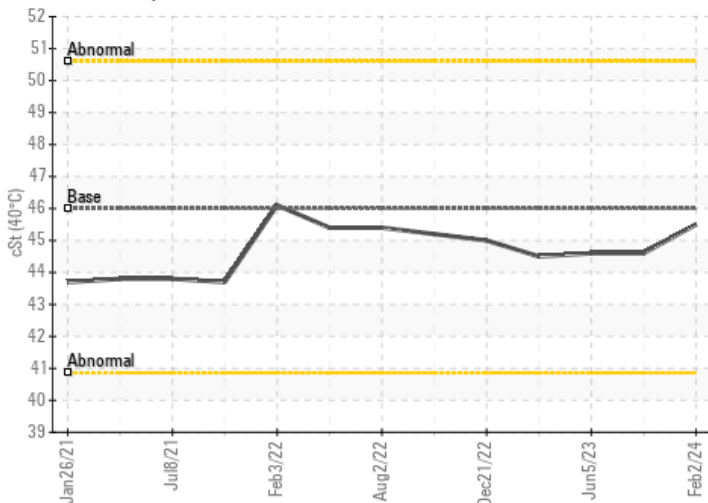
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

