



CONSTRUCTION EQUIPMENT

A11512 VOLVO A35D 72130 - HYDRAULIC SYSTEM



Sample No: VCP430949
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A11512



SAMPLE INFORMATION

Sample Number	VCP430949	VCP425734	VCP372190	VCP335658
Sample Date	21 Nov 2023	27 Jun 2023	10 Jun 2022	27 Sep 2021
Machine Hours	12630	12050	10833	10190
Oil Hours	3500	500	0	500
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

DYER QUARRY
P.O. BOX 188, 1275 ROCK HOLLOW ROAD
BIRDSBORO, PA
US 19508
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T:
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OIL CONDITION

Visc @ 40°C	cSt	40.6	40.7	41.0	41.9
Acid Number (AN)	mg KOH/g	0.52	0.56	0.63	0.627

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		---	77241	98836	100453
Particles >6µm		---	1649	1267	1213
Particles >14µm		---	10	22	16
ISO 4406:1999 (c)		---	23/18/10	24/17/12	24/17/11
Silicon	ppm	11	11	9	8
Sodium	ppm	0	1	<1	2
Potassium	ppm	3	2	2	<1

Diagnosis

Oil and 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. 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	31	30	27	23
Copper	ppm	37	31	22	18
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	2	2	3	2
Chromium	ppm	10	8	4	2
Molybdenum	ppm	3	3	3	3
Nickel	ppm	1	<1	0	<1
Titanium	ppm	1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	2	1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1435	1376	1289	1346
Magnesium	ppm	31	28	27	28
Zinc	ppm	862	853	806	794
Phosphorus	ppm	583	661	613	609
Barium	ppm	0	0	0	0
Boron	ppm	18	19	20	22

Depot: DYEBIR
Unique No: 10764986
Signed: Jonathan Hester
Report Date: 01 Dec 2023

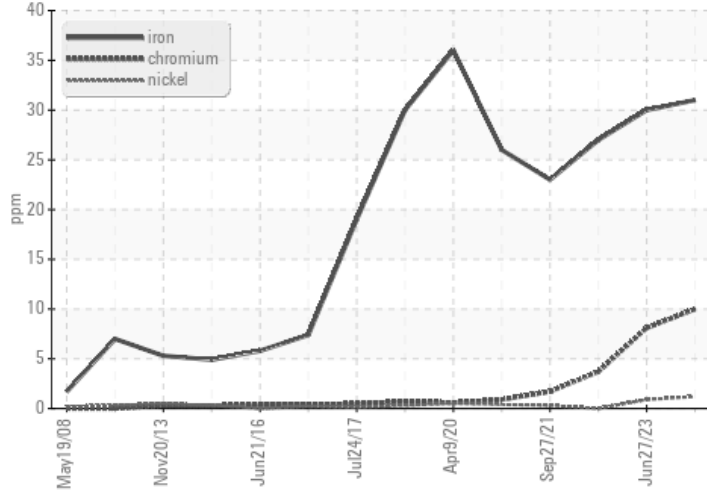


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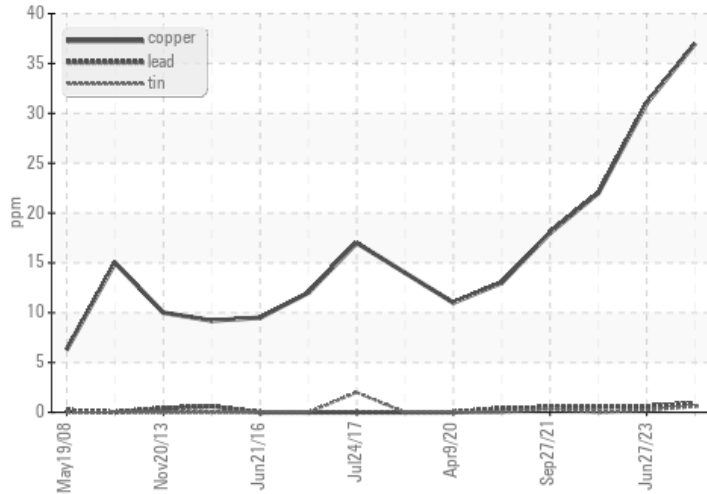


GRAPHS

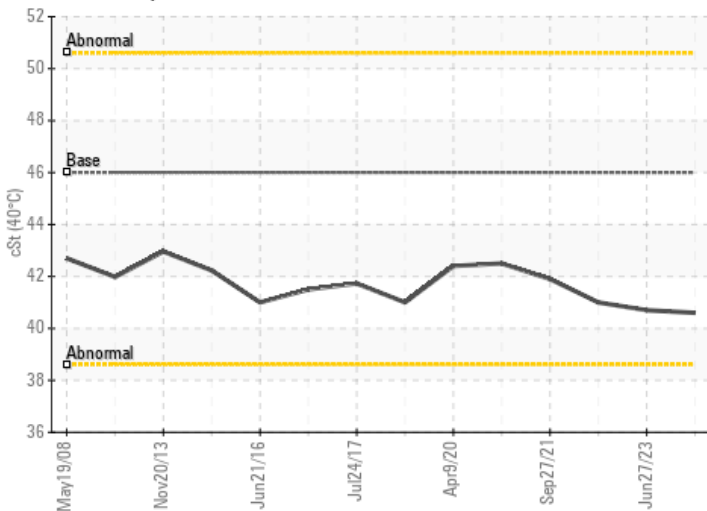
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

