



CONSTRUCTION EQUIPMENT

SPM674733 CATERPILLAR D8T KPZO 1336 - HYDRAULIC SYSTEM



Sample No: VCP430162
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM674733



SAMPLE INFORMATION

Sample Number	VCP430162	VCP429888	VCP420663	VCP400812
Sample Date	12 Apr 2024	02 Nov 2023	25 Aug 2023	21 Feb 2023
Machine Hours	11275	9815	9433	7449
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	SEVERE	SEVERE	SEVERE	NORMAL

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 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: DAVE ENG
 DAVE.ENG@ALTG.COM
 T: (312)350-2560
 F:



OIL CONDITION

Visc @ 40°C	cSt	41.4	42.1	43.5	44.5
Acid Number (AN)	mg KOH/g	0.50	0.51	0.91	0.94



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		---	---	---	1917
Particles >6µm		---	---	---	322
Particles >14µm		---	---	---	23
ISO 4406:1999 (c)		---	---	---	18/16/12
Silicon	ppm	34	8	27	5
Sodium	ppm	4	2	0	1
Potassium	ppm	3	0	3	0



WEAR METALS

Iron	ppm	195	55	177	5
Copper	ppm	50	8	34	5
Lead	ppm	2	0	3	1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	4	0	3	2
Chromium	ppm	28	9	17	<1
Molybdenum	ppm	1	<1	3	1
Nickel	ppm	2	0	<1	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	3	<1	1	0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	287	189	566	450
Magnesium	ppm	17	6	26	23
Zinc	ppm	627	464	882	773
Phosphorus	ppm	525	396	765	664
Barium	ppm	0	0	2	0
Boron	ppm	13	2	13	<1

Diagnosis

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. The iron level is severe. The chromium level is severe. Elemental level of silicon (Si) above normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.

Depot: VOLVO8885
Unique No: 10989700
Signed: Don Baldrige
Report Date: 23 Apr 2024

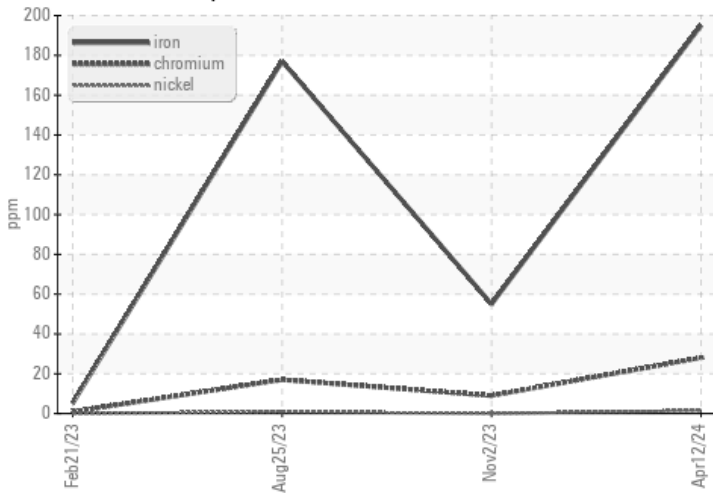


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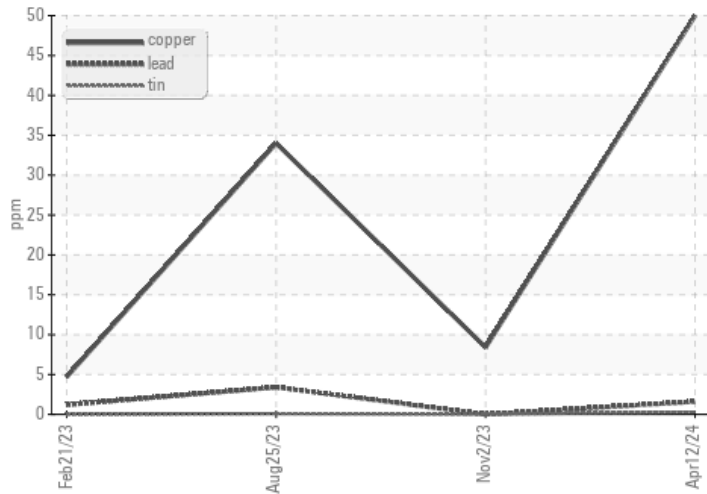


GRAPHS

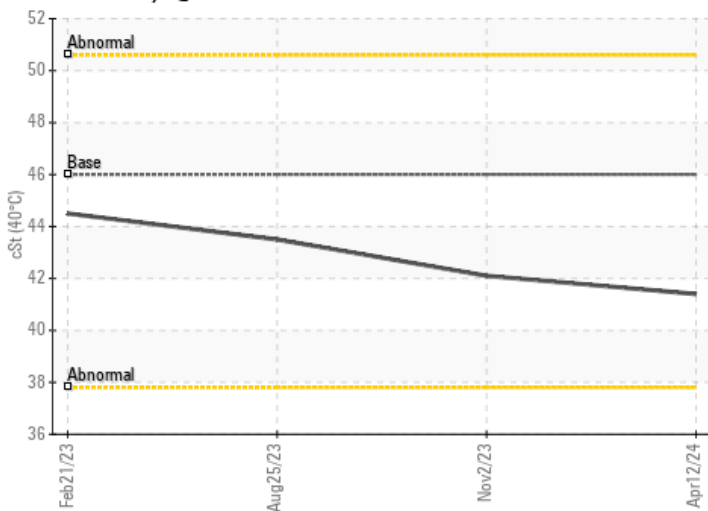
▲ Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

