



CONSTRUCTION EQUIPMENT

PASCO COUNTY EXC VOLVO A30G 742628 - HYDRAULIC SYSTEM



Sample No: VCP431827
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: PASCO COUNTY EXC



SAMPLE INFORMATION

Sample Number	VCP431827	VCP412106	VCP390699	VCP348317
Sample Date	16 Nov 2023	21 Jun 2023	11 Oct 2022	04 Mar 2022
Machine Hours	5704	5336	8403	3322
Oil Hours	0	1000	2000	3322
Oil Changed	N/A	Not Changd	Changed	Not Changd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	62.6	42.2	45.5	45.7
Acid Number (AN)	mg KOH/g	0.71	0.40	0.37	0.44



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		33669	8729	1709	5211
Particles >6µm		▲ 10882	3485	307	1126
Particles >14µm		▲ 1120	▲ 440	24	55
ISO 4406:1999 (c)		22/21/17	20/19/16	18/15/12	20/17/13
Silicon	ppm	2	4	4	3
Sodium	ppm	0	2	<1	0
Potassium	ppm	<1	0	<1	1

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	<1	4	9	7
Copper	ppm	0	4	6	6
Lead	ppm	0	<1	4	3
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	<1	2	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	5	18	<1	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	▲ 174	106	63	66
Magnesium	ppm	▲ 55	13	2	2
Zinc	ppm	▲ 389	437	436	445
Phosphorus	ppm	▲ 454	359	326	331
Barium	ppm	0	0	2	0
Boron	ppm	36	3	<1	<1

Depot: VOLVO0093
Unique No: 10777449
Signed: Don Baldrige
Report Date: 11 Dec 2023

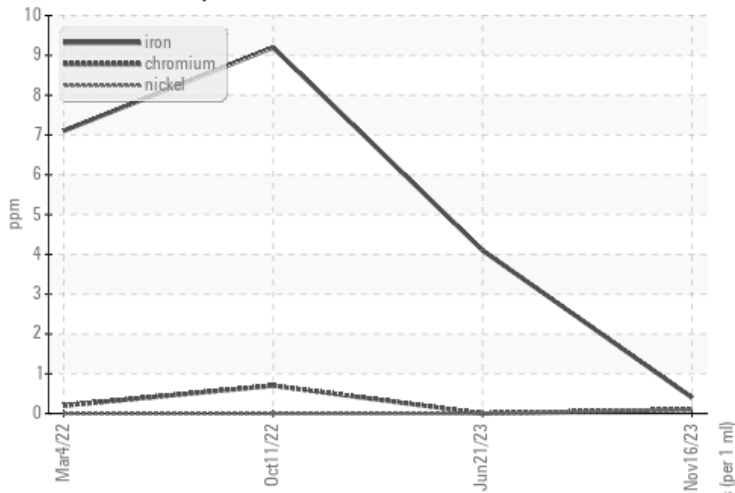


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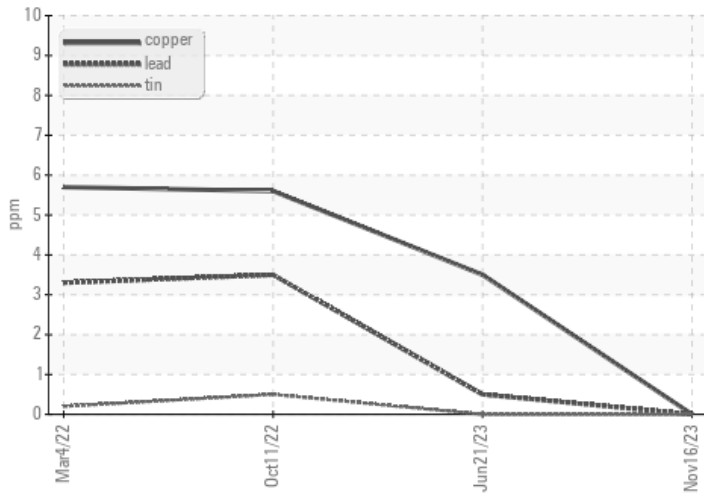


GRAPHS

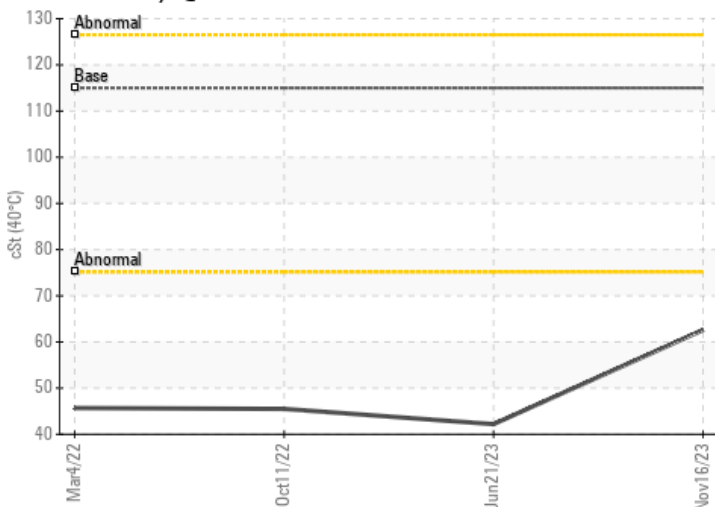
Ferrous Alloys



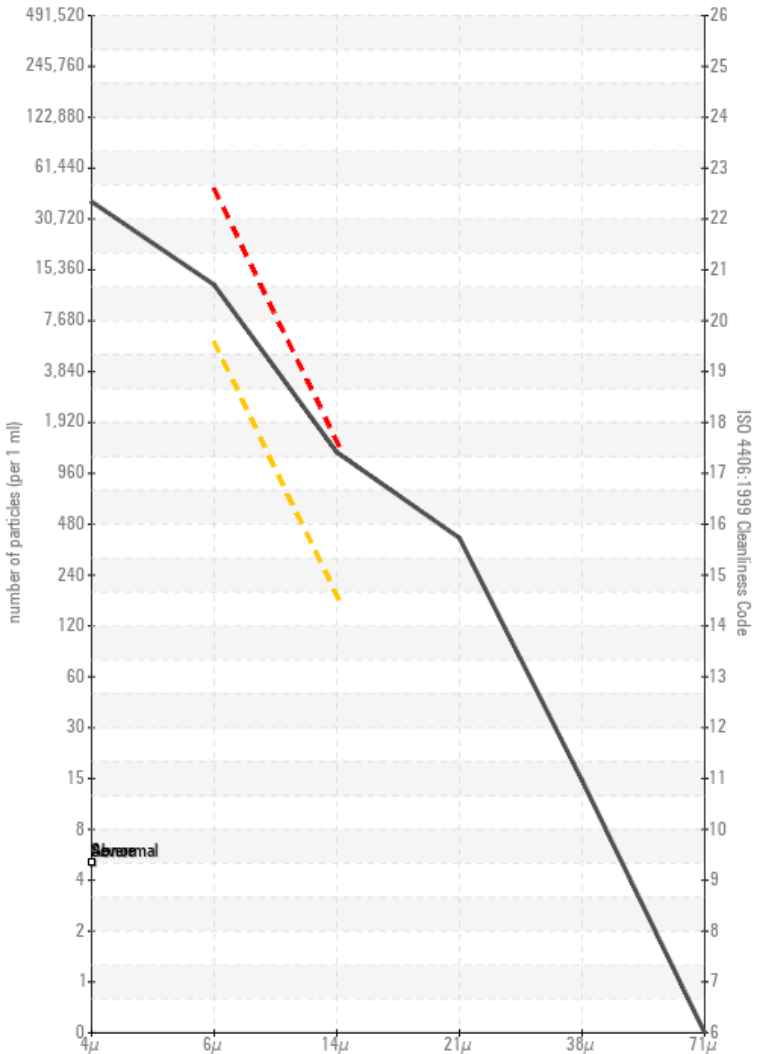
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

