



CONSTRUCTION EQUIPMENT

A10991 VOLVO EC480DL 210065 - HYDRAULIC SYSTEM



Sample No: VCP424780
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A10991



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SAMPLE INFORMATION

Sample Number	VCP424780	VCP399154	VCP358841	VCP264612
Sample Date	26 Aug 2023	13 Jan 2023	12 May 2022	24 Feb 2020
Machine Hours	8275	7764	7231	5900
Oil Hours	2000	0	0	1000
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ATTENTION	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	40.2	36.8	38.6	39.6
Acid Number (AN)	mg KOH/g	0.60	0.58	0.61	0.477

CONTAMINATION

Particles >4µm	15467	84000	65887	2710	
Particles >6µm	329	38120	6370	447	
Particles >14µm	14	5278	139	20	
ISO 4406:1999 (c)	21/16/11	24/22/20	23/20/14	19/16/11	
Silicon	ppm	8	6	4	3
Sodium	ppm	<1	0	2	<1
Potassium	ppm	0	2	0	<1

WEAR METALS

Iron	ppm	10	13	11	6
Copper	ppm	14	19	14	7
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	1	2	<1
Chromium	ppm	2	2	1	<1
Molybdenum	ppm	1	<1	<1	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1553	783	650	406
Magnesium	ppm	22	8	7	4
Zinc	ppm	896	718	645	609
Phosphorus	ppm	702	559	571	446
Barium	ppm	0	1	0	0
Boron	ppm	42	21	19	10

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: JAAPHI
Unique No: 10648650
Signed: Jonathan Hester
Report Date: 20 Sep 2023

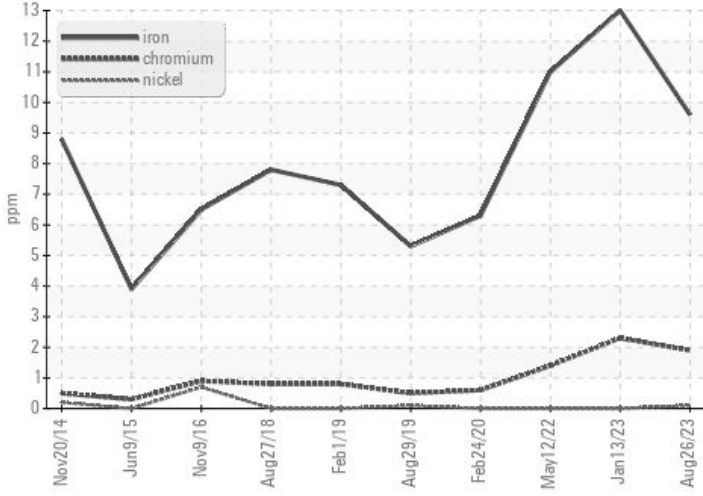


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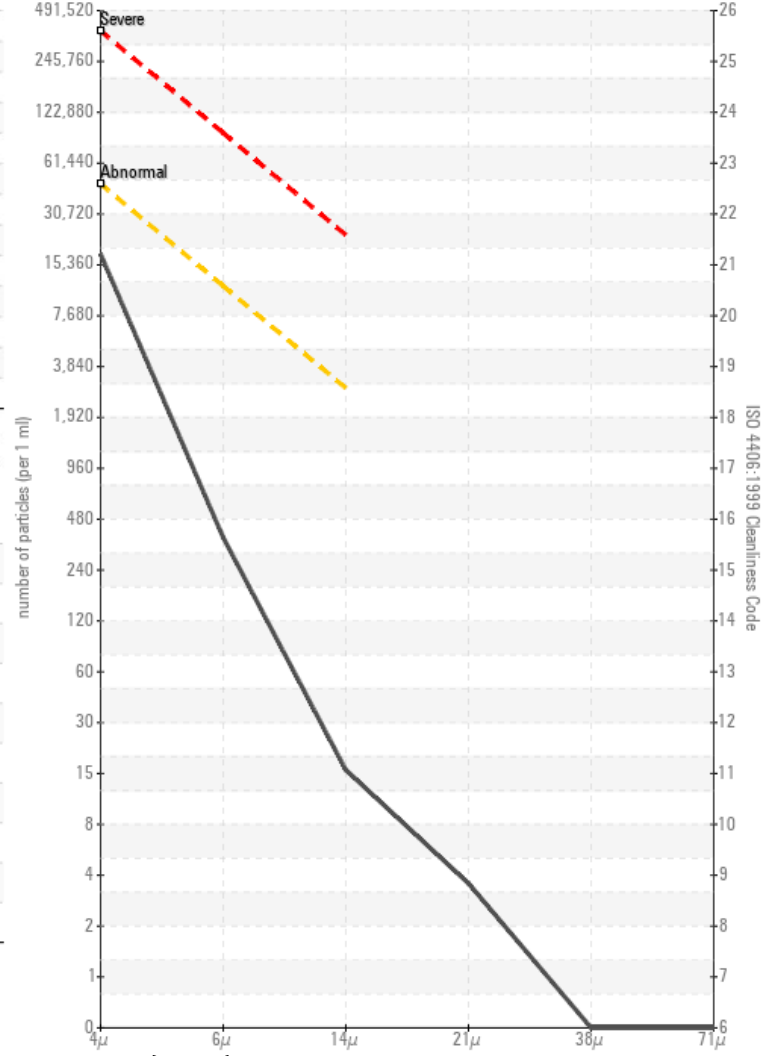


GRAPHS

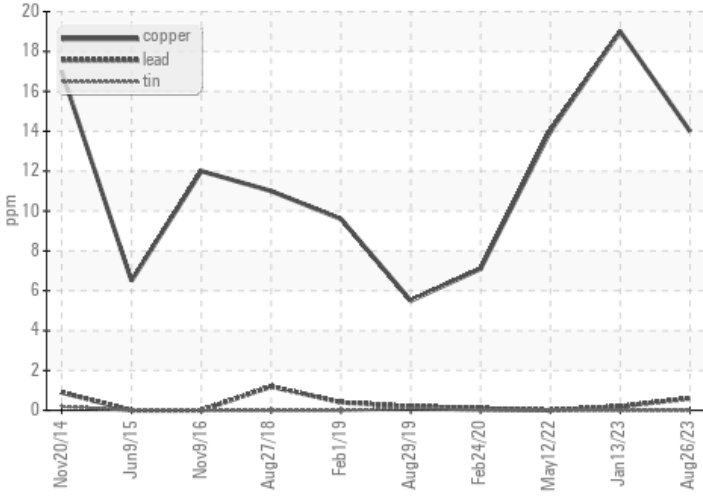
Ferrous Alloys



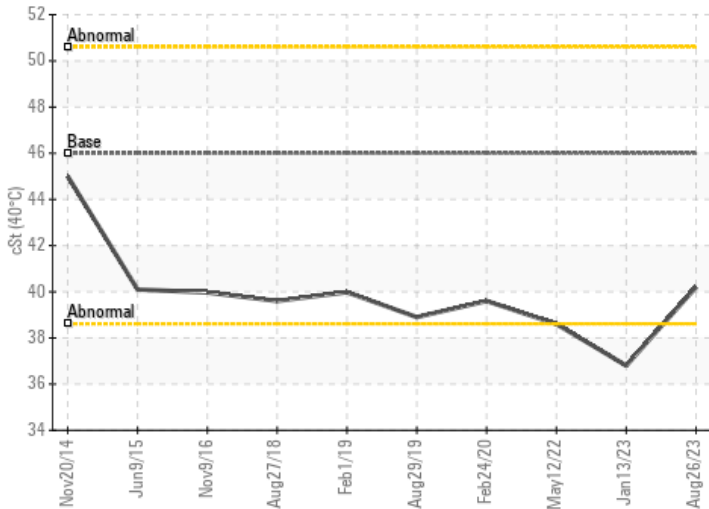
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

