CONSTRUCTION EQUIPMENT

SCOTT KRENZER VOLVO EC210CL 111140 - HYDRAULIC SYSTEM

Sample No: VCP417790
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SCOTT KRENZER

SCOTT KRENZER
1001 CHICI-SCOTTSVILLE RD
SCOTTSVILLE, NY
US 14546
Contact: SCOTT KRENZER
jskrenz1@gmail.com
T:
F:

SAMPLE INFORMATION

Sample Number		**VCP417790**	VCP138302	VCP124310	VCP115384
Sample Date		**29 Aug 2023**	02 Sep 2014	17 Dec 2012	04 Apr 2012
Machine Hours		**11599**	5574	4291	3716
Oil Hours		**0**	0	0	2000
Oil Changed		**N/A**	Not Changd	Changed	Not Changd
Sample Status		**SEVERE**	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	▲ **36.2**	40.74	40.8	42.93
Acid Number (AN)	mg KOH/g	**0.25**	0.505	0.822	1.08

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		▲ **158073**	76	590	16963
Particles >6µm		▲ **26097**	41	321	2421
Particles >14µm		**121**	7	54	6
ISO 4406:1999 (c)		**24/22/14**	13/13/10	16/16/13	21/18/10
Silicon	ppm	▲ **98**	6	13	10
Sodium	ppm	**2**	2	3	<1
Potassium	ppm	**7**	0	8	3

WEAR METALS

Iron	ppm	⬢ **187**	13	17	5
Copper	ppm	**21**	8	10	<1
Lead	ppm	**<1**	5	<1	<1
Tin	ppm	**<1**	1	0	0
Aluminum	ppm	▲ **18**	3	3	2
Chromium	ppm	⬢ **26**	3	<1	0
Molybdenum	ppm	**<1**	3	<1	1
Nickel	ppm	**0**	0	0	0
Titanium	ppm	**1**	0	<1	<1
Silver	ppm	**0**	0	0	0
Manganese	ppm	**1**	<1	<1	0
Vanadium	ppm	**0**	0	<1	0

ADDITIVES

Calcium	ppm	**135**	480	603	1670
Magnesium	ppm	**9**	3	4	3
Zinc	ppm	**412**	483	529	933
Phosphorus	ppm	**330**	377	451	789
Barium	ppm	**2**	0	0	0
Boron	ppm	**2**	2	5	48

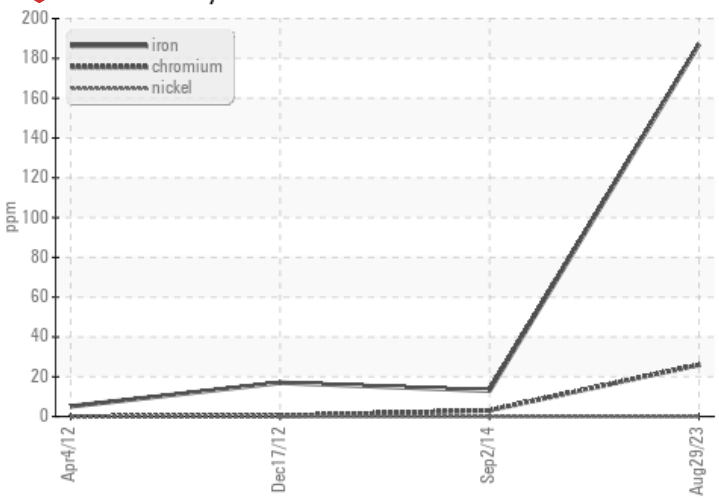
Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.The iron level is severe. The chromium level is severe. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is lower than normal. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

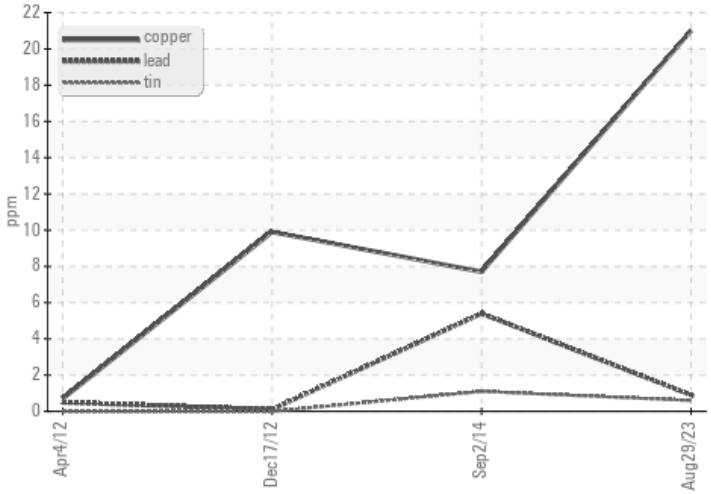
Depot: SCOSCONY
Unique No: 10634800
Signed: Jonathan Hester
Report Date: 12 Sep 2023

GRAPHS

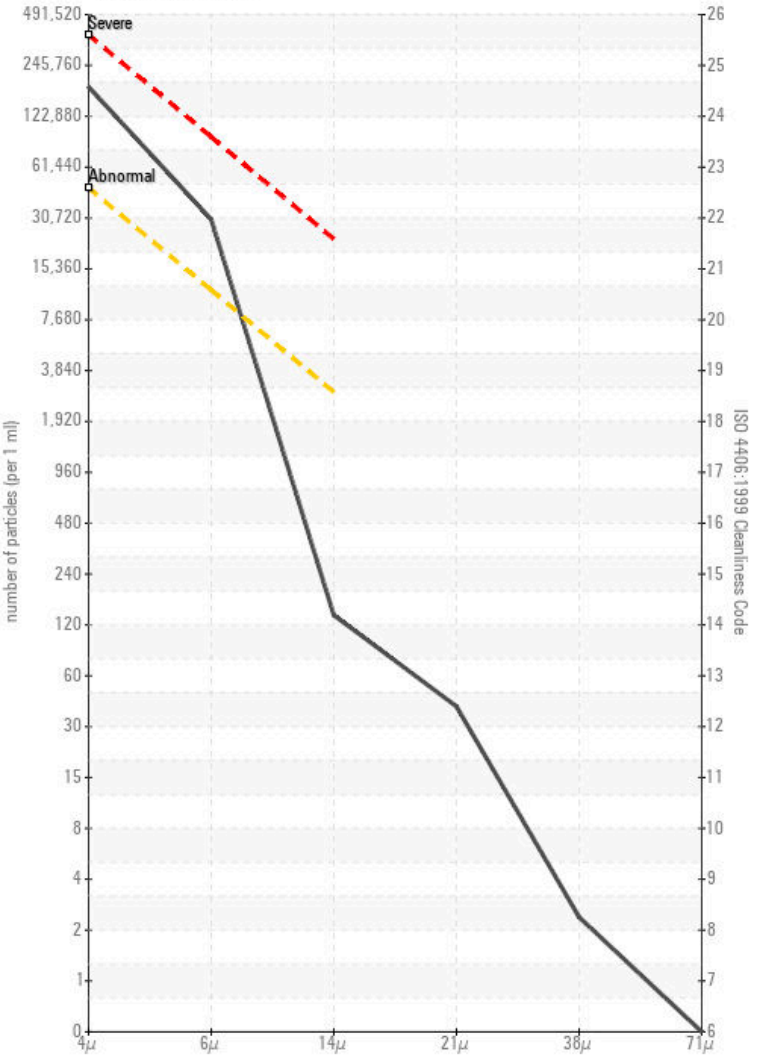
Ferrous Alloys



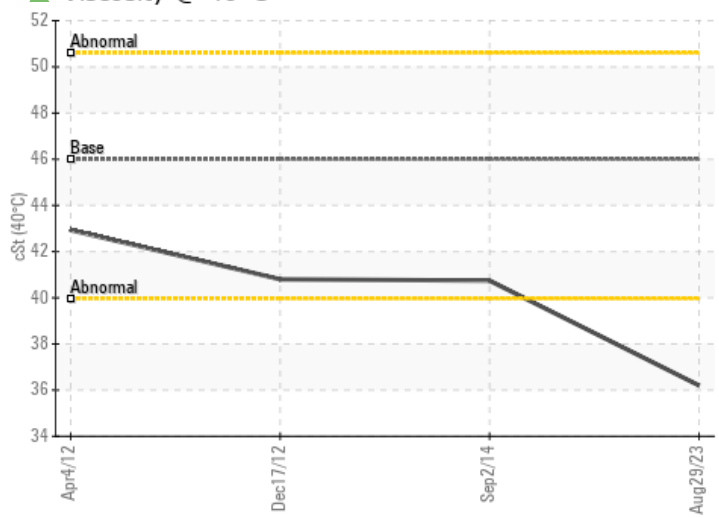
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number