



CONSTRUCTION EQUIPMENT

A10652 VOLVO EC160E 3 10440 - HYDRAULIC SYSTEM



Sample No: VCP411862
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A10652



SAMPLE INFORMATION

Sample Number	VCP411862	VCP342649	VCP246358	VCP250561
Sample Date	07 Jul 2023	27 Jan 2023	27 Feb 2020	19 Jul 2019
Machine Hours	3200	2090	900	575
Oil Hours	1000	2090	900	575
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

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 1737 STOUT DRIVE
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 US 18974
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 duked@kcconstruct.com
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OIL CONDITION

Visc @ 40°C	cSt	44.6	42.8	43.5	43.6
Acid Number (AN)	mg KOH/g	0.44	0.52	0.445	0.455

CONTAMINATION

Particles >4µm	5784	11812	7238	72067	
Particles >6µm	449	1445	1383	3336	
Particles >14µm	13	74	44	39	
ISO 4406:1999 (c)	20/16/11	21/18/13	20/18/13	23/19/12	
Silicon	ppm	2	6	4	5
Sodium	ppm	1	0	<1	<1
Potassium	ppm	<1	1	0	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	4	5	2	3
Copper	ppm	18	39	25	22
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	0	0	0	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	0	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	105	66	71	73
Magnesium	ppm	11	1	<1	<1
Zinc	ppm	482	481	519	496
Phosphorus	ppm	391	381	369	383
Barium	ppm	0	1	0	0
Boron	ppm	0	0	0	<1

Depot: KCCIVY
Unique No: 10559871
Signed: Wes Davis
Report Date: 17 Jul 2023

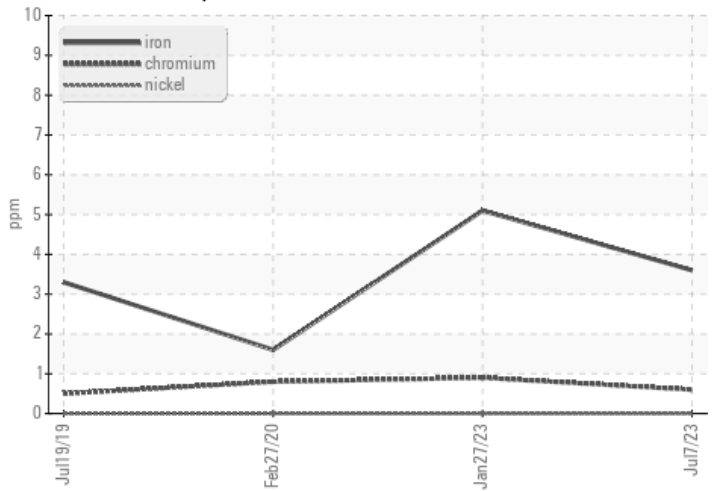


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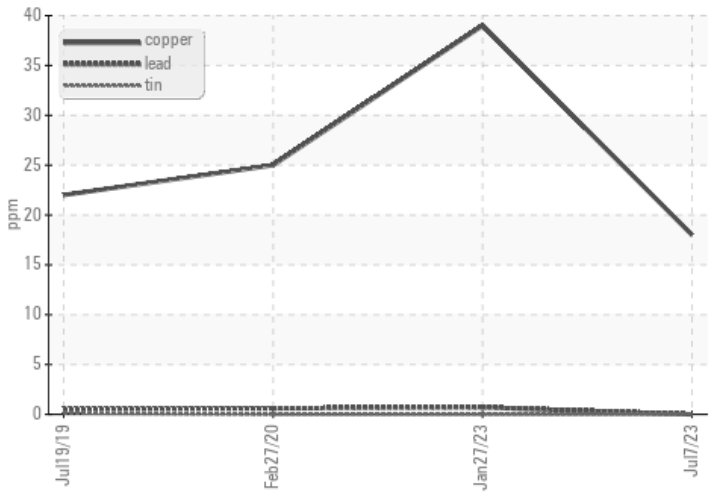


GRAPHS

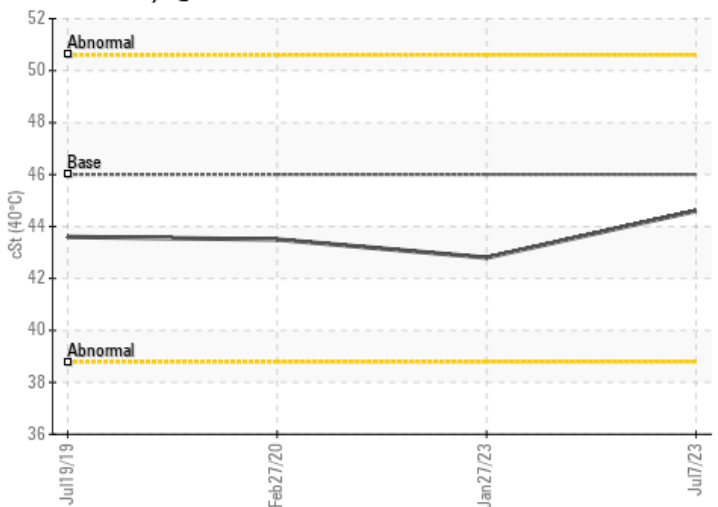
Ferrous Alloys



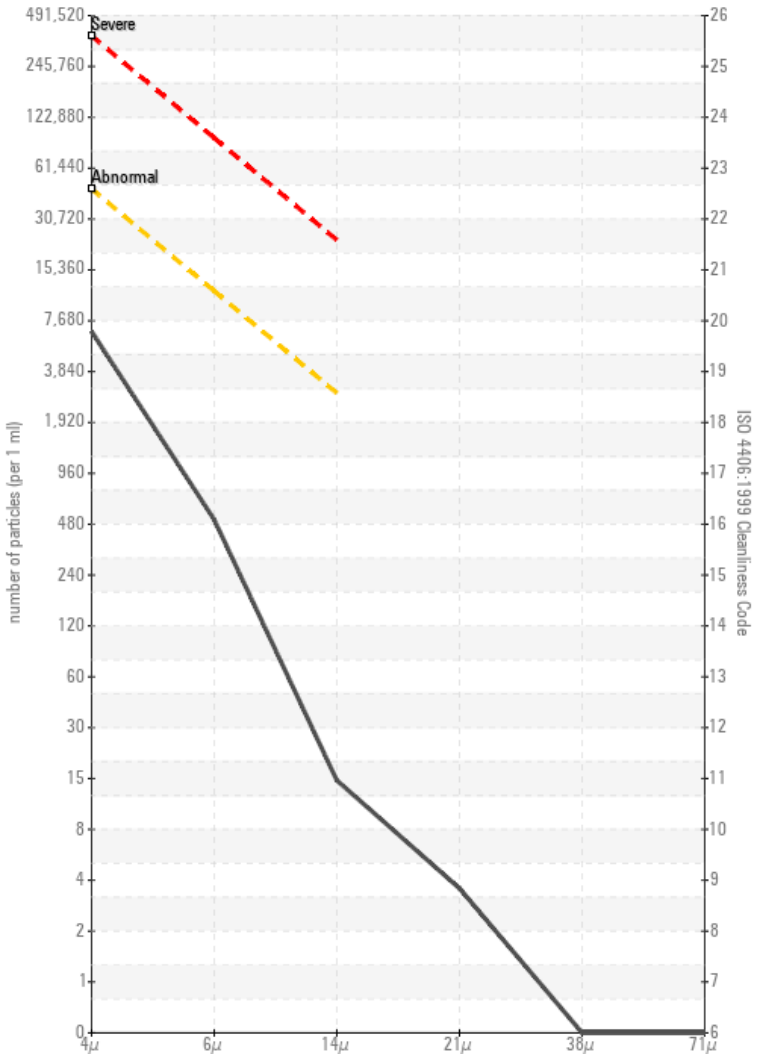
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

