



CONSTRUCTION EQUIPMENT

A05836 VOLVO EC480E 3 10234 - HYDRAULIC SYSTEM



Sample No: VCP310400
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A05836



SAMPLE INFORMATION

Sample Number	VCP310400	VCP225799	VCP205068	VCP199380
Sample Date	18 May 2021	24 Jan 2019	05 May 2017	24 Sep 2016
Machine Hours	4415	3870	2200	0
Oil Hours	2000	3870	2000	1000
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ATTENTION	NORMAL	NORMAL

K C CONSTRUCTION

1737 STOUT DRIVE
 IVYLAND, PA
 US 18974
 Contact: DUKE D.
 duked@kcconstruct.com
 T: (267)784-7337
 F: x:



OIL CONDITION

Visc @ 40°C	cSt	41.8	41.84	43.27	43.33
Acid Number (AN)	mg KOH/g	0.441	0.488	0.591	0.829



CONTAMINATION

Particles 5-15µm	count	---	---	7997	---
Particles 15-25µm	count	---	---	-1069	---
Particles 25-50µm	count	---	---	-584	---
Particles 50-100µm	count	---	---	-4	---
Particles >100µm	count	---	---	998	---
NAS Code		---	---	12	---
Particles >4µm		---	▲ 68297	2533	11390
Particles >6µm		---	6997	137	6204
Particles >14µm		---	415	23	1057
ISO 4406:1999 (c)		---	23/20/16	19/14/12	21/20/17
Silicon	ppm	12	14	5	4
Sodium	ppm	2	2	3	<1
Potassium	ppm	2	3	4	<1

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	28	27	6	4
Copper	ppm	48	46	38	28
Lead	ppm	1	<1	0	<1
Tin	ppm	2	0	1	<1
Aluminum	ppm	4	3	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	0	<1	0
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	676	676	140	129
Magnesium	ppm	8	6	0	0
Zinc	ppm	708	706	627	681
Phosphorus	ppm	587	571	514	536
Barium	ppm	0	0	0	0
Boron	ppm	2	<1	2	<1

Depot: KCCIVY
Unique No: 9514546
Signed: Jonathan Hester
Report Date: 25 May 2021

Contact/Location: DUKE D. - KCCIVY

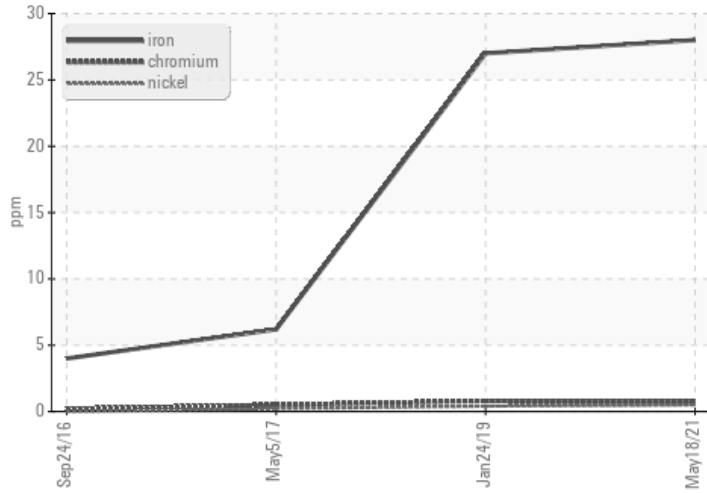


CONSTRUCTION EQUIPMENT

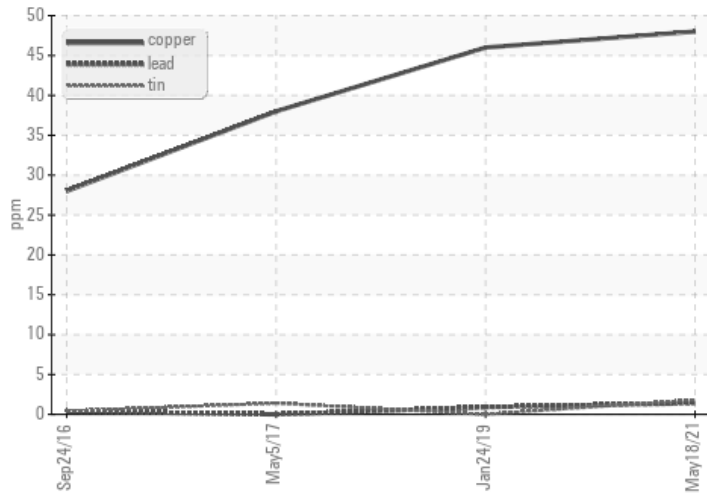


GRAPHS

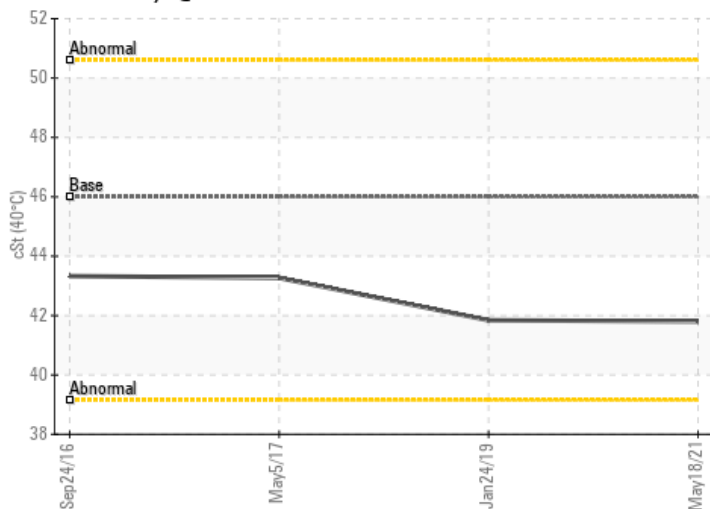
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

