



CONSTRUCTION EQUIPMENT

600139 CRC VOLVO EC160E 310218 - HYDRAULIC SYSTEM



Sample No: VCP379692
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: 600139 CRC



SAMPLE INFORMATION

Sample Number	VCP379692	VCP371485	VCP362548	VCP05210860
Sample Date	07 Jun 2023	09 Jan 2023	11 Oct 2022	11 Mar 2021
Machine Hours	0	14095	0	10749
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	N/A	N/A
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

PACWEST MACHINERY

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OIL CONDITION

Visc @ 40°C	cSt	41.9	42.1	42.2	41.3
Acid Number (AN)	mg KOH/g	0.43	0.47	0.52	0.419



CONTAMINATION

Particles >4µm		11929	23019	64201	10545
Particles >6µm		777	1774	5771	377
Particles >14µm		18	18	164	12
ISO 4406:1999 (c)		21/17/11	22/18/11	23/20/15	21/16/11
Silicon	ppm	5	5	5	5
Sodium	ppm	5	<1	3	4
Potassium	ppm	2	1	0	5

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The chromium level is abnormal. All other component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	14	13	10	16
Copper	ppm	13	13	12	14
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	1	1	2	2
Chromium	ppm	13	13	13	17
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	66	62	41	76
Magnesium	ppm	4	3	5	5
Zinc	ppm	487	473	484	437
Phosphorus	ppm	395	358	384	371
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	<1

Depot: VOLVO1271
Unique No: 10661748
Signed: Don Baldrige
Report Date: 27 Sep 2023

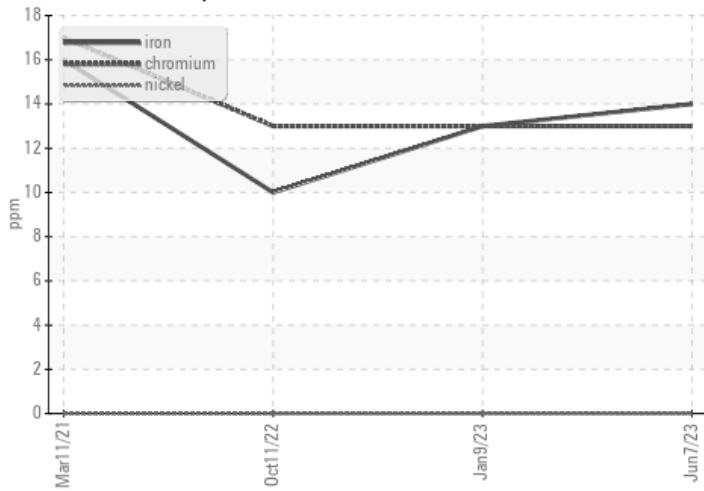


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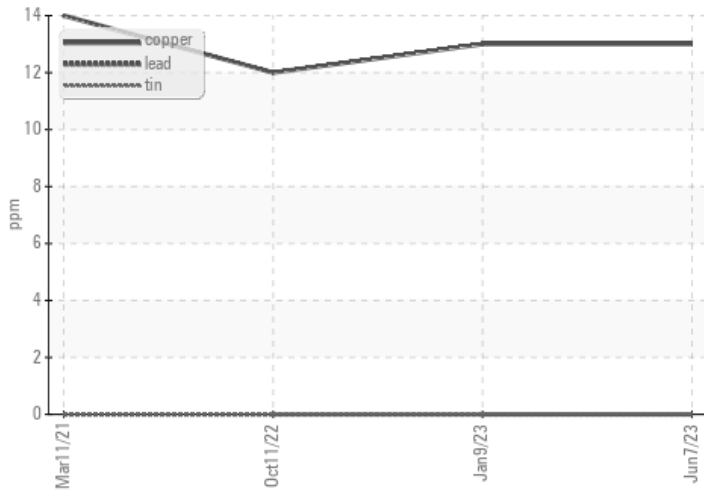


GRAPHS

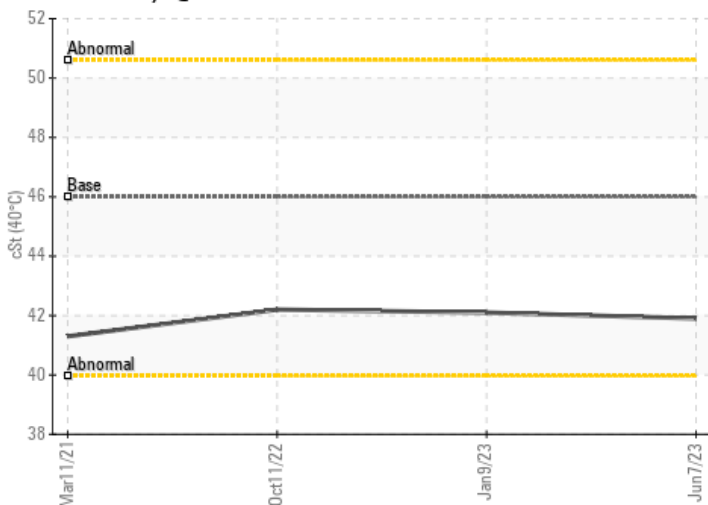
▲ Ferrous Alloys



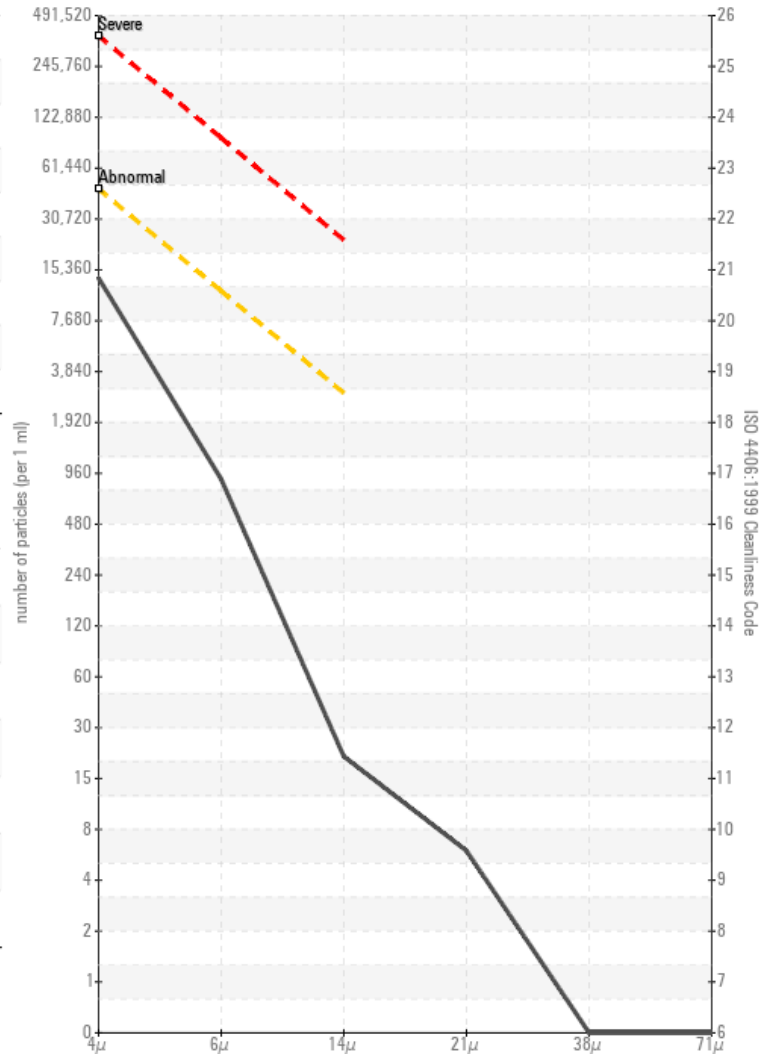
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

