



CONSTRUCTION EQUIPMENT

SPM594991 SCORIA IRO SENNEBOGEN 860 860.0.1028 - HYDRAULIC SYSTEM



Sample No: VCP415444
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM594991 SCORIA IRO



SAMPLE INFORMATION

Sample Number	VCP415444	VCP423386	VCP398496	VCP325199
Sample Date	25 Aug 2023	01 Jun 2023	08 Feb 2023	16 Jun 2021
Machine Hours	21409	12246	20295	17757
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: DAVE ENG
 DAVE.ENG@ALTG.COM
 T: (312)350-2560
 F:

OIL CONDITION

Visc @ 40°C	cSt	43.8	43.7	43.5	43.8
Acid Number (AN)	mg KOH/g	0.30	0.34	0.33	0.306

CONTAMINATION

Particles >4µm	▲ 9403	▲ 69289	▲ 54422	▲ 25739	
Particles >6µm	■ 1250	▲ 22171	▲ 8332	▲ 3143	
Particles >14µm	■ 57	▲ 1893	▲ 530	▲ 307	
ISO 4406:1999 (c)	20/17/13	23/22/18	23/20/16	22/19/15	
Silicon	ppm	■ 2	■ 3	■ 2	■ 2
Sodium	ppm	■ 7	■ 8	■ 4	■ 3
Potassium	ppm	■ <1	■ 1	■ <1	■ <1

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The chromium level is abnormal. The iron level is abnormal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	▲ 22	▲ 24	■ 18	■ 12
Copper	ppm	■ 7	■ 8	■ 6	■ 5
Lead	ppm	■ <1	■ <1	■ <1	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 0	■ 0	■ 0	■ 0
Chromium	ppm	▲ 45	▲ 53	▲ 44	▲ 17
Molybdenum	ppm	■ <1	■ 0	■ <1	■ <1
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	■ 56	■ 76	■ 47	■ 57
Magnesium	ppm	■ 4	■ 4	■ 2	■ 3
Zinc	ppm	■ 367	■ 497	■ 376	■ 410
Phosphorus	ppm	■ 322	■ 421	■ 322	■ 348
Barium	ppm	■ 2	■ 0	■ 0	■ 0
Boron	ppm	■ 0	■ 0	■ 0	■ <1

Depot: VOLVO8885
Unique No: 10632705
Signed: Don Baldrige
Report Date: 07 Sep 2023

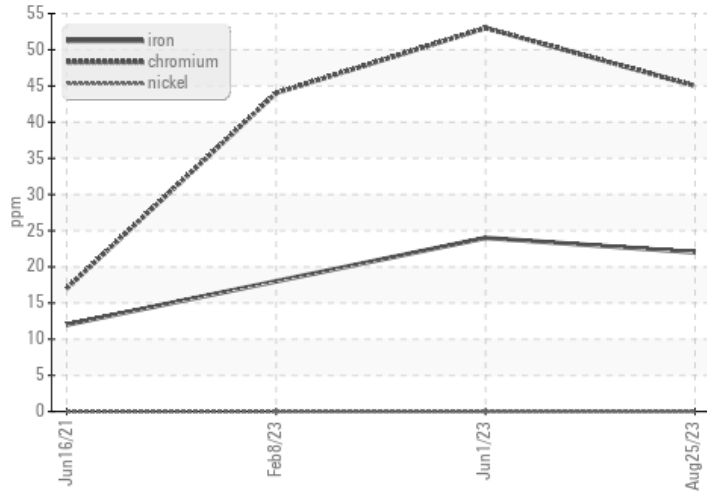


CONSTRUCTION EQUIPMENT

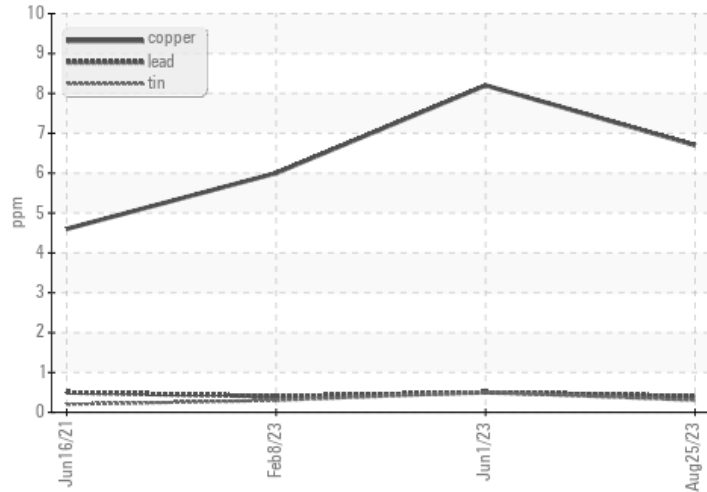


GRAPHS

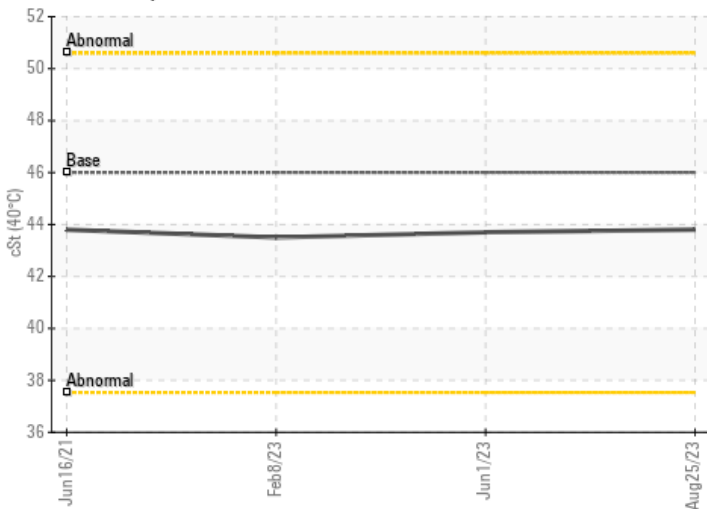
▲ Ferrous Alloys



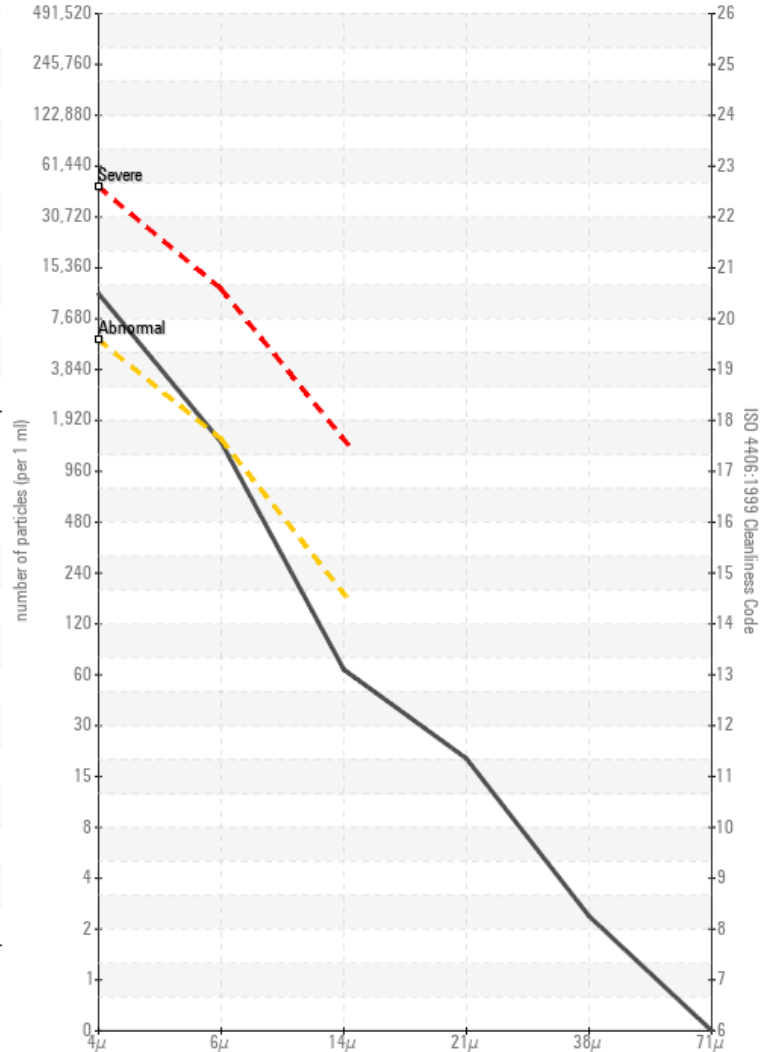
Non-ferrous Metals



Viscosity @ 40°C



▲ Particle Count



Acid Number

