



CONSTRUCTION EQUIPMENT

ASCENDUM MACHINERY 500HR CSA/LEMON SPRINGS, NC VOLVO EC250E 1876 (S/N 310287) - HYDRAULIC



Sample No: VCP414427

Oil Type: VOLVO SUPER HYDRAULIC OIL 46

Job No:



SAMPLE INFORMATION

Sample Number	VCP414427	VCP408080	VCP378513	VCP0000832
Sample Date	18 Jul 2023	09 May 2023	08 Aug 2022	17 Mar 2022
Machine Hours	9538	8999	8508	51920
Oil Hours	0	0	0	7942
Oil Changed	Not Chngd	Changed	N/A	Changed
Sample Status	ABNORMAL	ATTENTION	NORMAL	ABNORMAL

G S MATERIALS INC

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OIL CONDITION

Visc @ 40°C	cSt	44.0	44.4	45.1	44.4
Acid Number (AN)	mg KOH/g	0.33	0.38	0.31	0.333



CONTAMINATION

Water	%	0.118	---	---	---
Particles >4µm		32527	42925	11493	163431
Particles >6µm		765	1806	475	27618
Particles >14µm		8	68	17	43
ISO 4406:1999 (c)		22/17/10	23/18/13	21/16/11	25/22/13
Silicon	ppm	36	23	11	40
Sodium	ppm	2	0	0	0
Potassium	ppm	0	<1	1	0

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	18	14	6	21
Copper	ppm	8	4	3	7
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	36	20	11	39
Chromium	ppm	4	3	<1	3
Molybdenum	ppm	<1	<1	<1	1
Nickel	ppm	0	0	0	<1
Titanium	ppm	1	<1	<1	1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	51	54	44	41
Magnesium	ppm	11	13	14	7
Zinc	ppm	382	395	286	291
Phosphorus	ppm	331	320	256	281
Barium	ppm	0	0	0	0
Boron	ppm	0	0	<1	2

Depot: GANBURNC
 Unique No: 10565653
 Signed: Doug Bogart
 Report Date: 02 Aug 2023

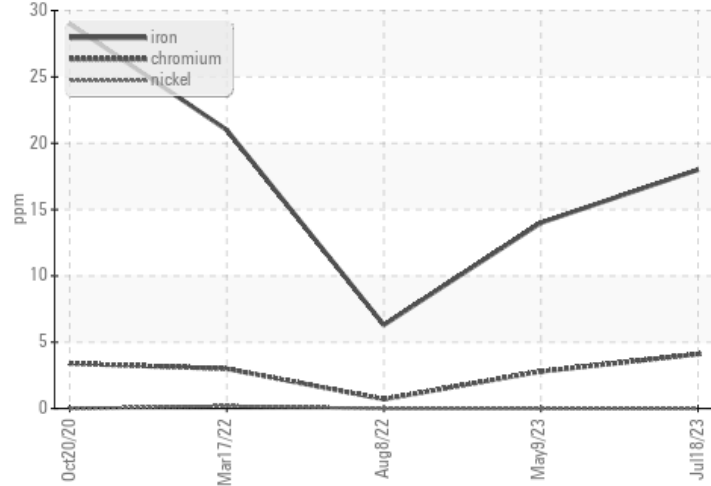


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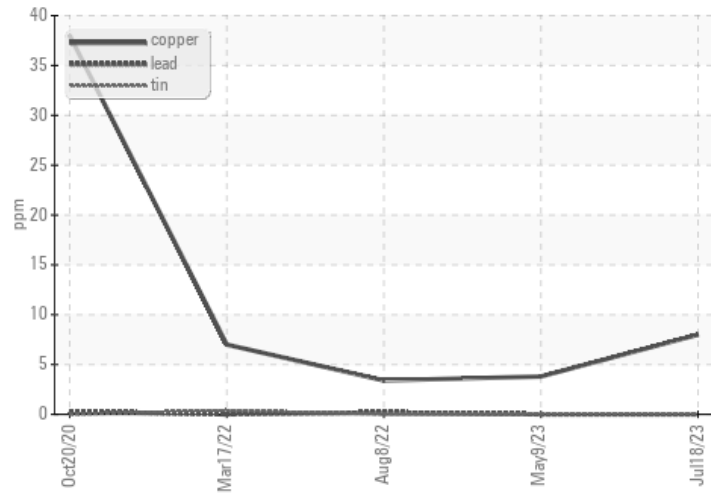


GRAPHS

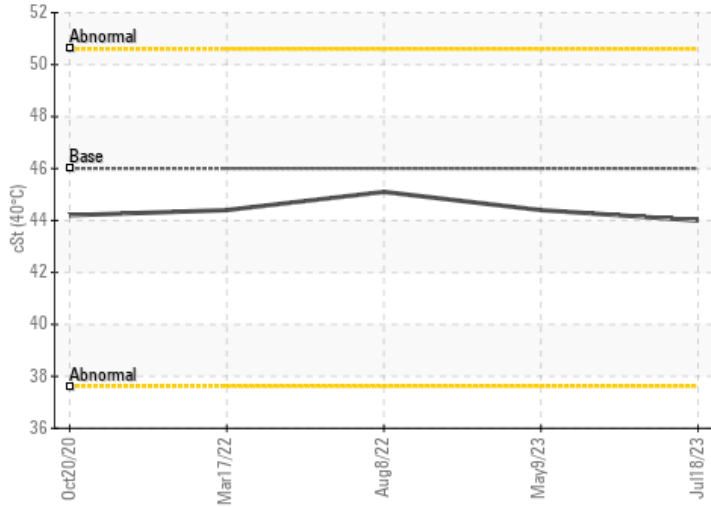
Ferrous Alloys



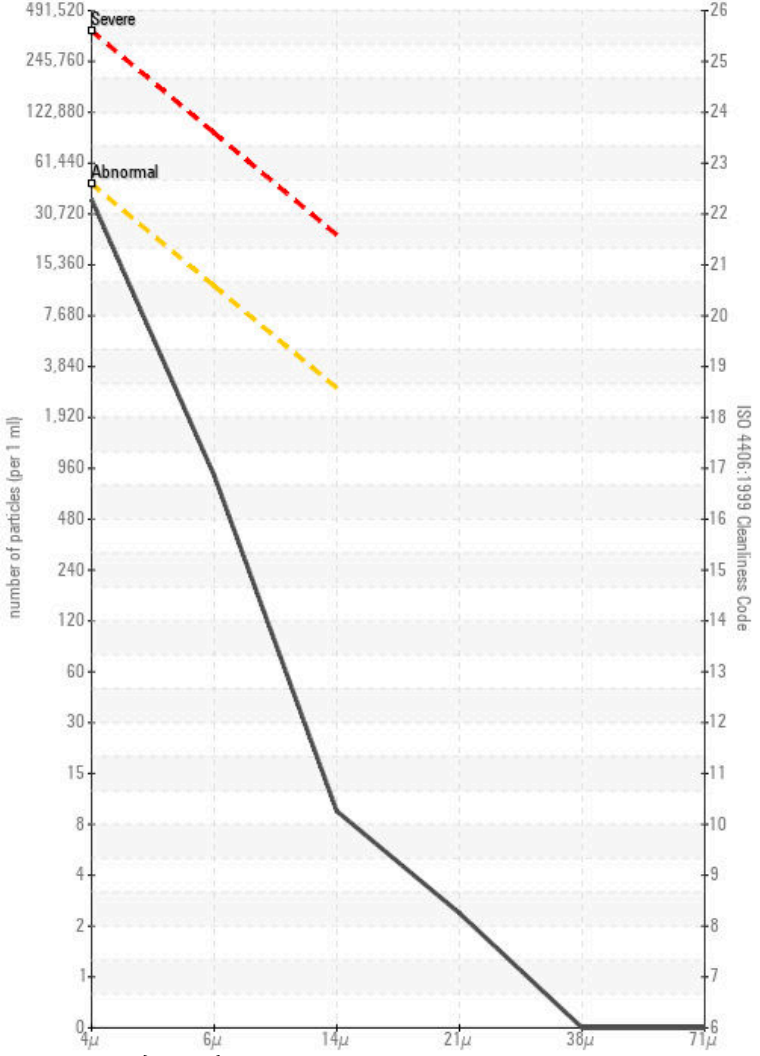
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

