

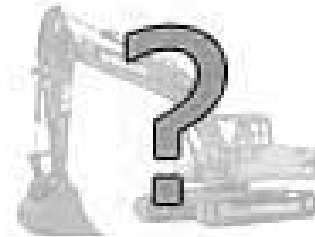


CONSTRUCTION EQUIPMENT

POWERSCREEN POWERSCREEN - HYDRAULIC SYSTEM



Sample No: VCP393449
Oil Type: ESSO NUTO H ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP393449	VCP341189	VCP390146	VCP383680
Sample Date	20 Sep 2023	08 Jun 2023	24 Feb 2023	25 Nov 2022
Machine Hours	8233	7961	7749	7528
Oil Hours	1132	860	750	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

MARYLAND ENVIRONMENTAL SERVICES
 21210 MARTINSBURG RD
 DICKERSON, MD
 US 20842
 Contact: ALAN PARRISH
 aparr@menv.com
 T: (301)428-8185
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OIL CONDITION

Visc @ 40°C	cSt	44.0	44.3	44.2	44.1
Acid Number (AN)	mg KOH/g	0.42	0.40	0.36	0.43



CONTAMINATION

Particles >4µm		843	1494	2801	9223
Particles >6µm		148	150	529	2301
Particles >14µm		20	9	43	163
ISO 4406:1999 (c)		17/14/11	18/14/10	19/16/13	20/18/15
Silicon	ppm	<1	0	<1	<1
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	1	0	0	0

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	5	4	3	4
Copper	ppm	<1	<1	0	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	3	<1	<1	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	1	2	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	76	88	78	84
Magnesium	ppm	4	2	8	4
Zinc	ppm	433	465	444	453
Phosphorus	ppm	356	374	343	378
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	<1

Depot: MARDIC
Unique No: 10662927
Signed: Wes Davis
Report Date: 28 Sep 2023

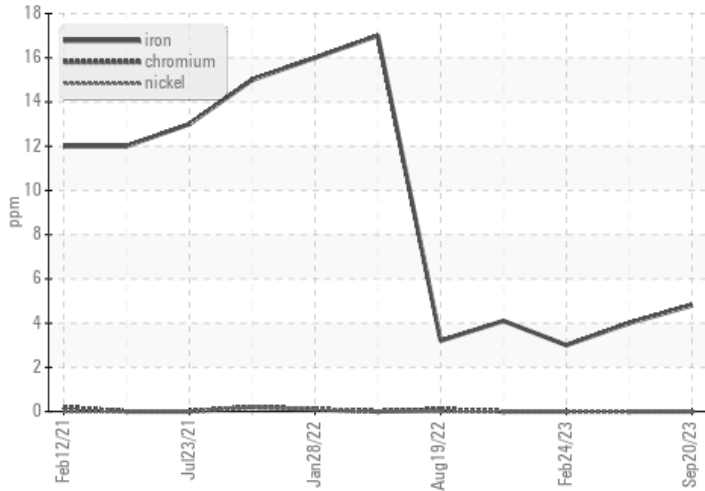


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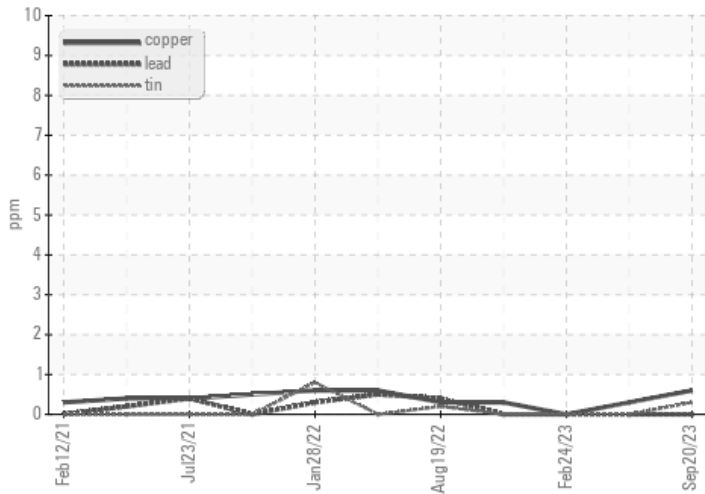


VOLVO GRAPHS

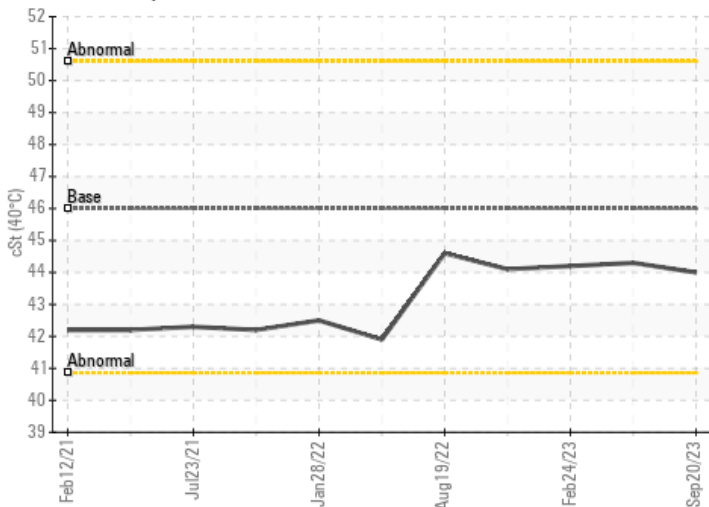
Ferrous Alloys



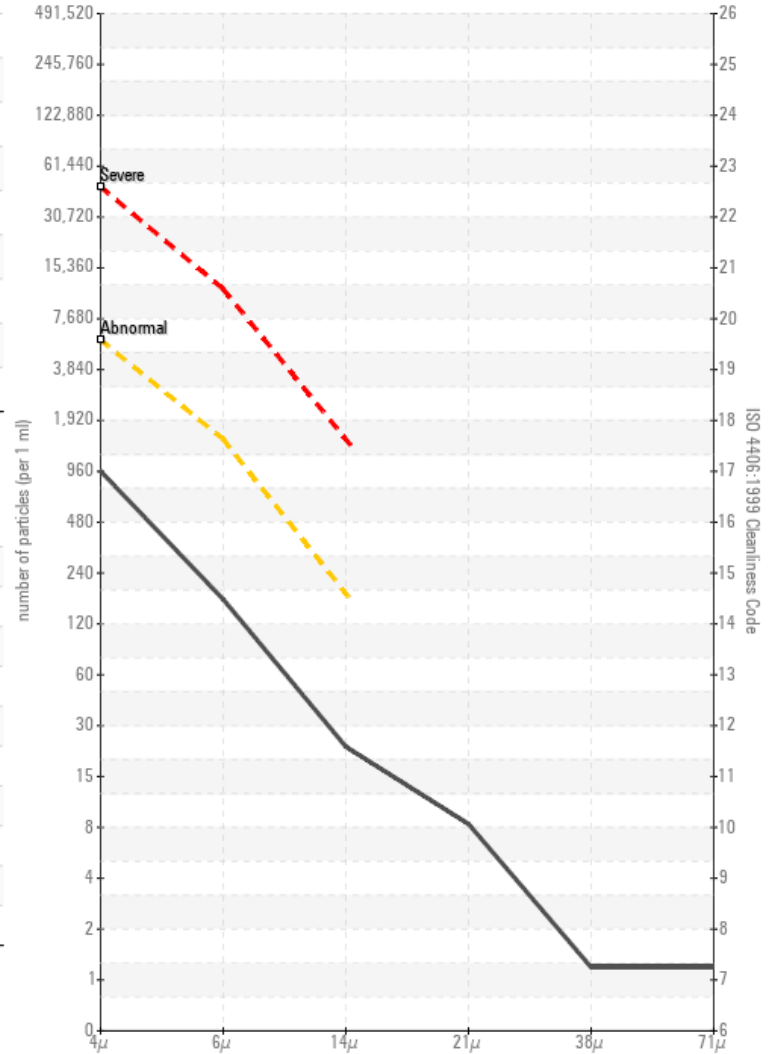
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

