



# CONSTRUCTION EQUIPMENT

## BACKHUS WT-5 - HYDRAULIC SYSTEM



**Sample No:** VCP416327

**Oil Type:** FACTORY

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP416327</b>	VCP358720	VCP318209	VCP306131
Sample Date	<b>30 Aug 2023</b>	21 Sep 2022	24 Nov 2021	18 Mar 2021
Machine Hours	<b>1000</b>	737	496	242
Oil Hours	<b>1000</b>	737	496	242
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	NORMAL

### MARYLAND ENVIRONMENTAL SERVICES

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### OIL CONDITION

Visc @ 40°C	cSt	<b>45.2</b>	45.4	45.4	45.4
Acid Number (AN)	mg KOH/g	<b>0.50</b>	0.49	0.519	0.547



### CONTAMINATION

Particles >4µm	<b>837</b>	1207	34921	2751	
Particles >6µm	<b>193</b>	332	11481	129	
Particles >14µm	<b>18</b>	44	1383	10	
ISO 4406:1999 (c)	<b>17/15/11</b>	17/16/13	22/21/18	19/14/10	
Silicon	ppm	5	5	4	4
Sodium	ppm	<1	0	<1	0
Potassium	ppm	0	1	<1	<1

### 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	<b>9</b>	8	11	8
Copper	ppm	<b>17</b>	15	13	10
Lead	ppm	<1	1	<1	<1
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>0</b>	0	0	0
Chromium	ppm	<b>0</b>	0	0	0
Molybdenum	ppm	<b>0</b>	0	<1	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>0</b>	7	1	4
Magnesium	ppm	<b>0</b>	<1	0	0
Zinc	ppm	<b>450</b>	450	482	475
Phosphorus	ppm	<b>403</b>	371	419	386
Barium	ppm	<b>0</b>	2	0	0
Boron	ppm	<b>0</b>	0	1	1

**Depot:** MARDIC  
**Unique No:** 10644928  
**Signed:** Don Baldrige  
**Report Date:** 14 Sep 2023

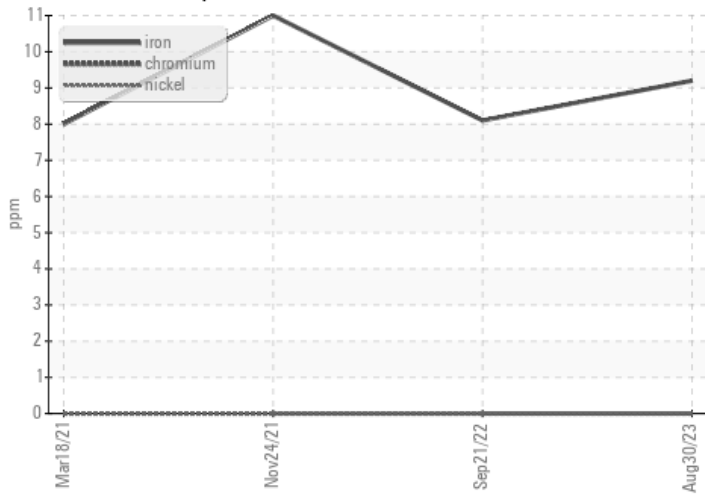


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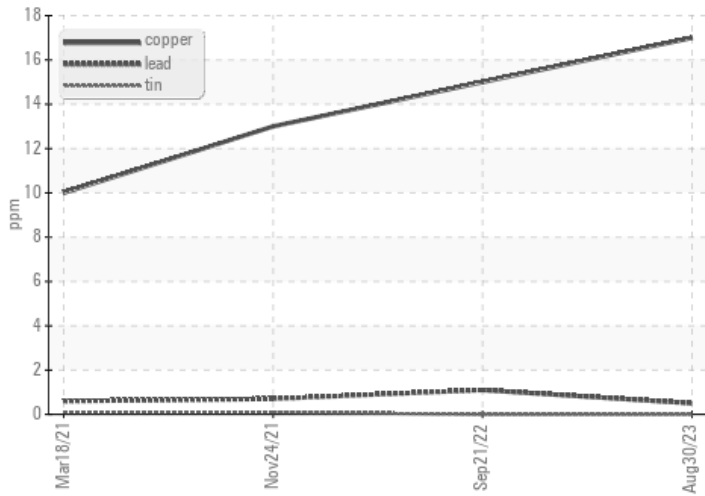


## GRAPHS

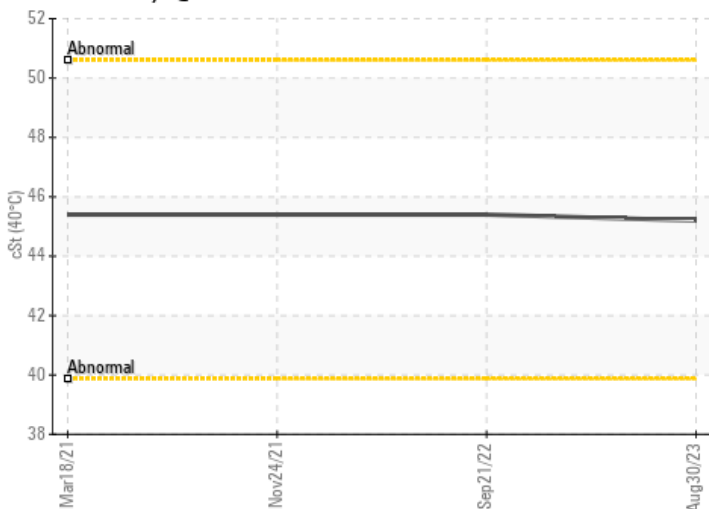
### Ferrous Alloys



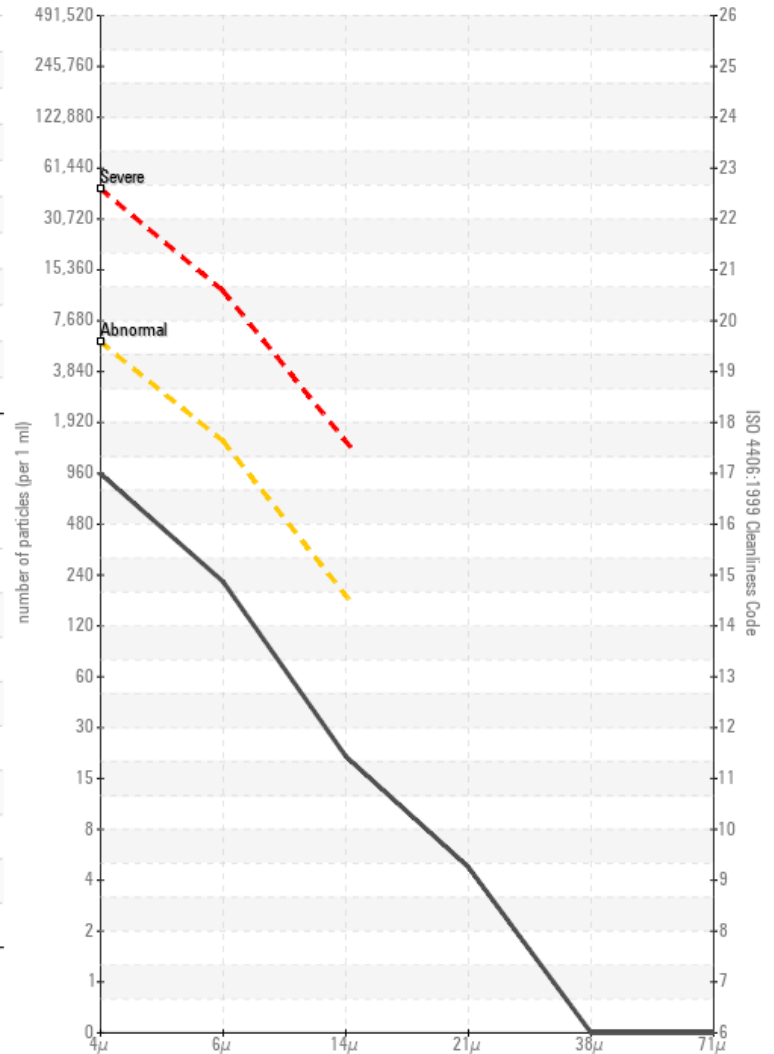
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

