

# [[BEFORE FILTER CADDY]] MORBARK 4600XL 188-1179 - HYDRAULIC SYSTEM

**Sample No:** JR0145629

**Oil Type:** TRACTOR SUPPLY

## SAMPLE INFORMATION

Sample Number	JR0145629	---	---	---
Sample Date	24 Aug 2023	---	---	---
Machine Hours	4693	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

**JRE - MOUNT GILEAD**  
 305 NORTH MAIN STREET  
 MOUNT GILEAD, NC  
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## OIL CONDITION

Visc @ 40°C	cSt	■ 54.1	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.87	---	---	---

## CONTAMINATION

Water	%	▲ 0.114	---	---	---
Silicon	ppm	■ 2	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 2	---	---	---

## WEAR METALS

PQ		■ 27	---	---	---
Iron	ppm	■ 17	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	1	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	709	---	---	---
Magnesium	ppm	4	---	---	---
Zinc	ppm	678	---	---	---
Phosphorus	ppm	531	---	---	---
Barium	ppm	1	---	---	---
Boron	ppm	0	---	---	---

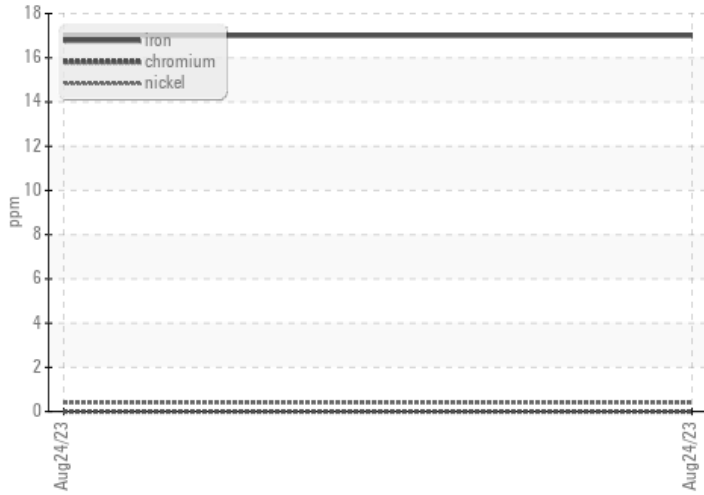
## Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. (before filter caddy). All component wear rates are normal. High concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

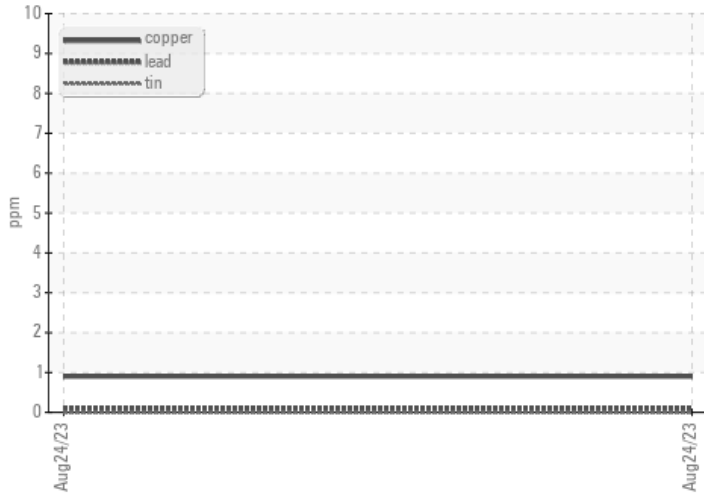
**Depot:** JAMMOUJR  
**Unique No:** 10621318  
**Signed:** Don Baldrige  
**Report Date:** 29 Aug 2023

# GRAPHS

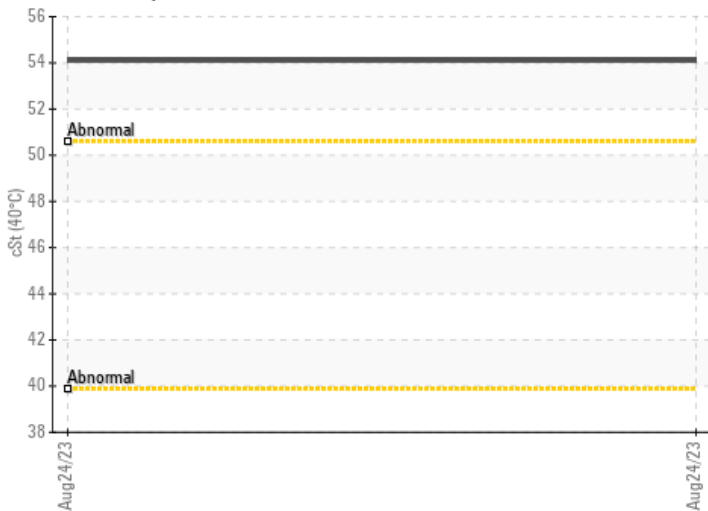
## Ferrous Alloys



## Non-ferrous Metals



## Viscosity @ 40°C



## Acid Number

