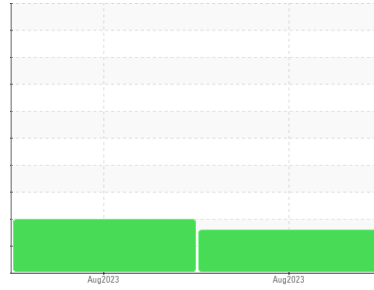


PROBLEM SUMMARY

Area
[AFTER FILTER CADDY]
 Machine Id
MORBARK 4600XL 188-1179
 Component
Hydraulic System
 Fluid
TRACTOR SUPPLY (--- GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. (after filter caddy).

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	---
Particles >4µm	ASTM D7647	>5000	▲ 83116	---	---
Particles >6µm	ASTM D7647	>1300	▲ 7358	---	---
Particles >14µm	ASTM D7647	>160	▲ 161	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 24/20/15	---	---

Customer Id: JAMMOUJR
 Sample No.: JR0161376
 Lab Number: 05936046
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

24 Aug 2023 Diag: Don Baldrige

WATER

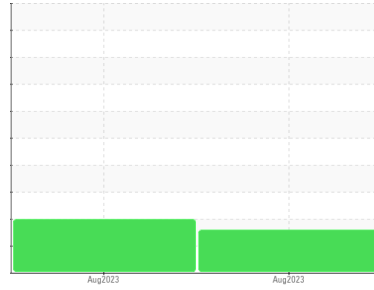


We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. (before filter caddy). All component wear rates are normal. High concentration of visible 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.

view report



Area
[AFTER FILTER CADDY]
 Machine Id
MORBARK 4600XL 188-1179
 Component
Hydraulic System
 Fluid
TRACTOR SUPPLY (--- GAL)


DIAGNOSIS
▲ Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. (after filter caddy).

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		JR0161376	JR0145629	---
Sample Date	Client Info		25 Aug 2023	24 Aug 2023	---
Machine Age	hrs	Client Info	4693	4693	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		15	27	---
Iron	ppm	ASTM D5185m >20	13	17	---
Chromium	ppm	ASTM D5185m >10	0	0	---
Nickel	ppm	ASTM D5185m >10	<1	<1	---
Titanium	ppm	ASTM D5185m	0	<1	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >10	1	2	---
Lead	ppm	ASTM D5185m >10	<1	<1	---
Copper	ppm	ASTM D5185m >75	<1	<1	---
Tin	ppm	ASTM D5185m >10	0	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	---
Barium	ppm	ASTM D5185m	1	1	---
Molybdenum	ppm	ASTM D5185m	1	1	---
Manganese	ppm	ASTM D5185m	<1	<1	---
Magnesium	ppm	ASTM D5185m	3	4	---
Calcium	ppm	ASTM D5185m	716	709	---
Phosphorus	ppm	ASTM D5185m	531	531	---
Zinc	ppm	ASTM D5185m	680	678	---
Sulfur	ppm	ASTM D5185m	2065	1934	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	2	2	---
Sodium	ppm	ASTM D5185m	0	0	---
Potassium	ppm	ASTM D5185m >20	2	2	---

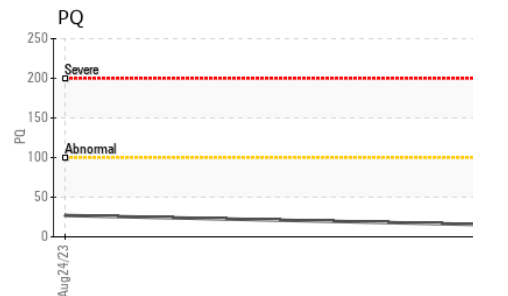
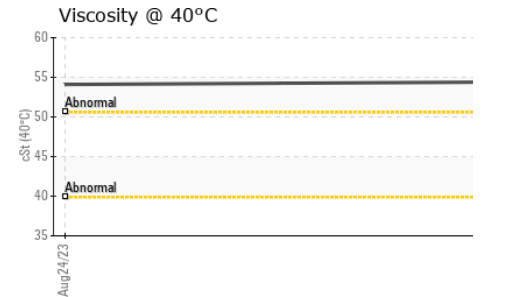
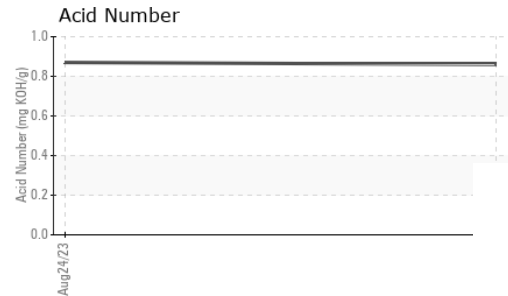
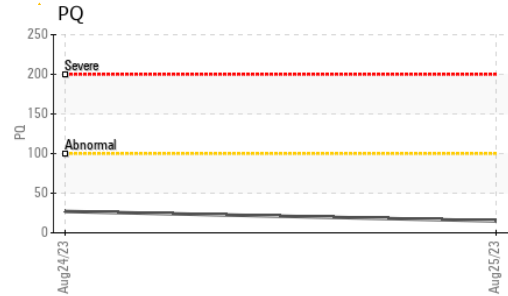
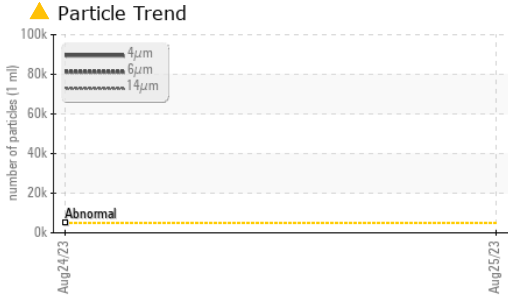
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 83116	---	---
Particles >6µm	ASTM D7647	>1300	▲ 7358	---	---
Particles >14µm	ASTM D7647	>160	▲ 161	---	---
Particles >21µm	ASTM D7647	>40	40	---	---
Particles >38µm	ASTM D7647	>10	1	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 24/20/15	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	0.87	---

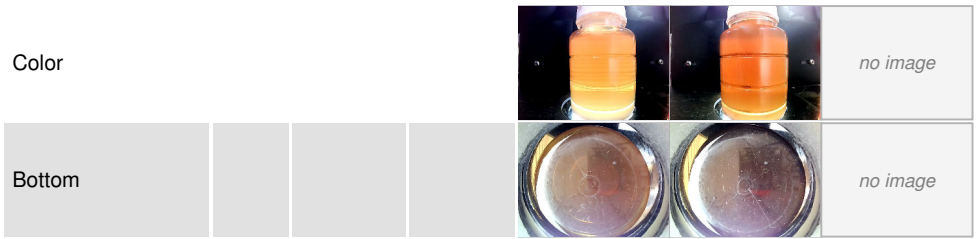
OIL ANALYSIS REPORT



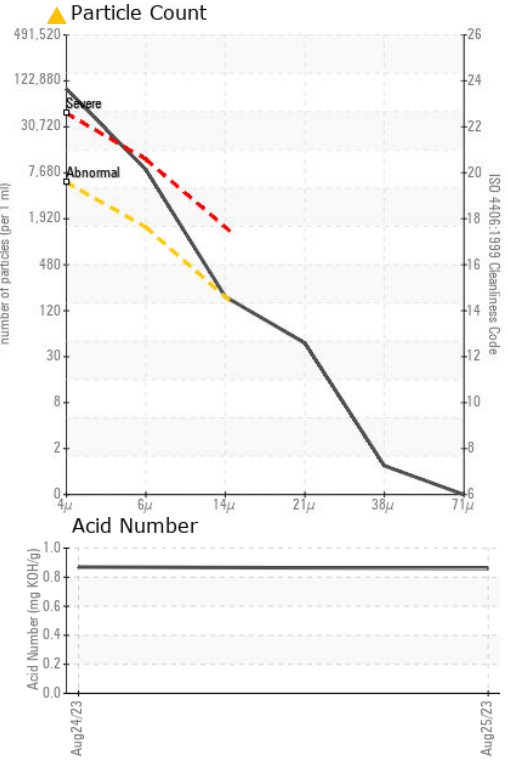
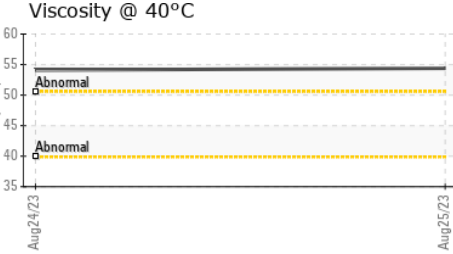
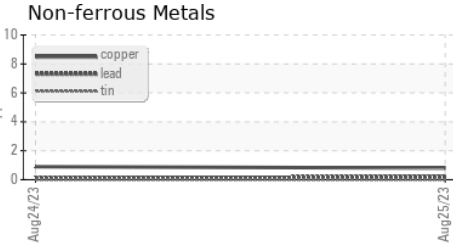
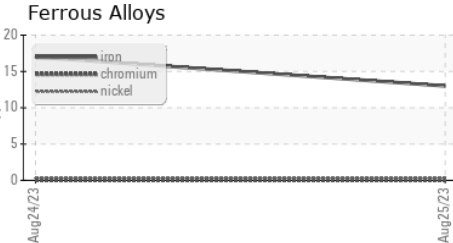
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	▲ HEAVY
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	0.2%
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	54.4	54.1	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0161376 **Received** : 28 Aug 2023
Lab Number : 05936046 **Diagnosed** : 29 Aug 2023
Unique Number : 10621317 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - MOUNT GILEAD
 305 NORTH MAIN STREET
 MOUNT GILEAD, NC
 US 27306
 Contact: ADAM CRUMP
 adam.crump@jamesriverequipment.com
 T:
 F: (910)439-4568

Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)