



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[HANSON AGGREGATES VA]
 Machine Id
CATERPILLAR 962K C205537 (S/N 962KHFL00354)
 Component
Rear Differential
 Fluid
TDTO FLUID SAE 50 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0194945	---	---
Sample Date		Client Info		20 Feb 2024	---	---
Machine Age	hrs	Client Info		14350	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

Bearing and/or bushing wear is indicated. All other component wear rates are normal.

PQ		ASTM D8184		78	---	---
Iron	ppm	ASTM D5185m	>500	477	---	---
Chromium	ppm	ASTM D5185m	>3	2	---	---
Nickel	ppm	ASTM D5185m	>3	3	---	---
Titanium	ppm	ASTM D5185m	>2	2	---	---
Silver	ppm	ASTM D5185m	>2	<1	---	---
Aluminum	ppm	ASTM D5185m	>30	9	---	---
Lead	ppm	ASTM D5185m	>13	3	---	---
Copper	ppm	ASTM D5185m	>103	▲ 158	---	---
Tin	ppm	ASTM D5185m	>5	3	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	LIGHT	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

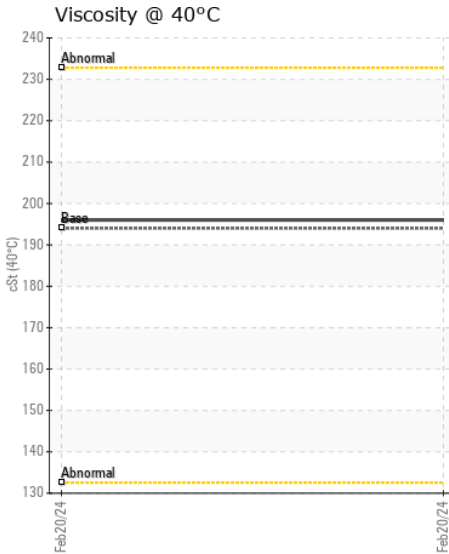
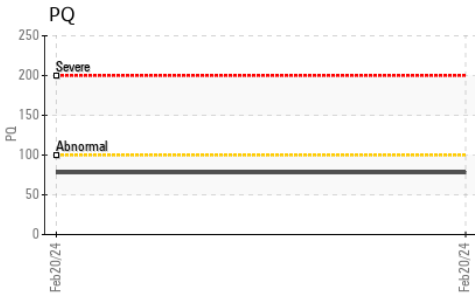
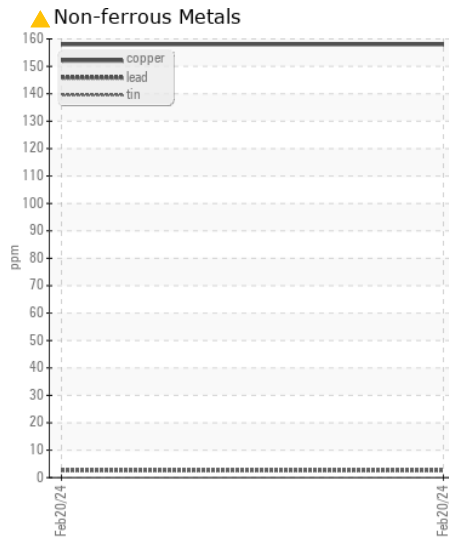
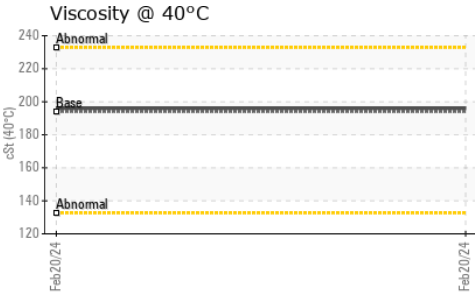
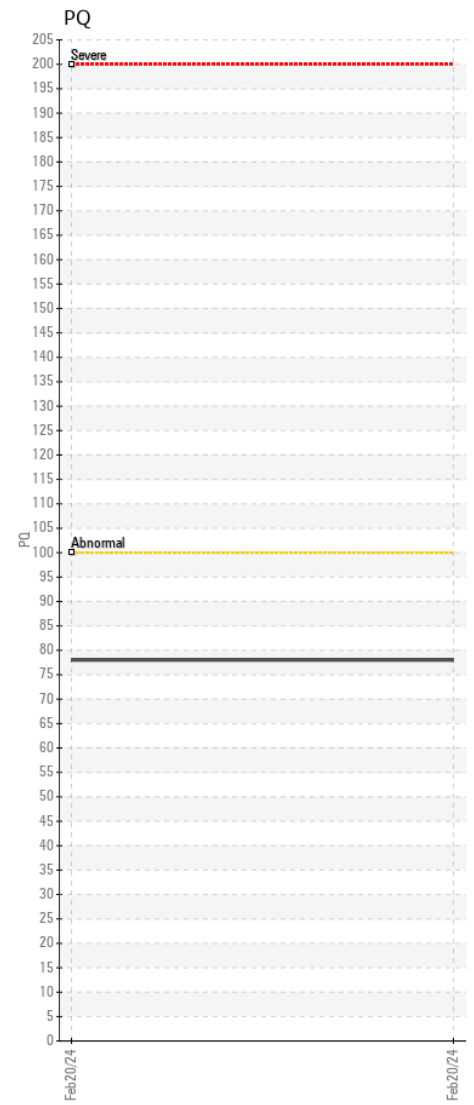
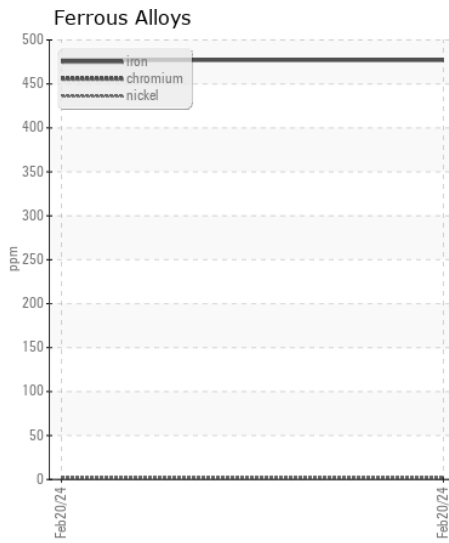
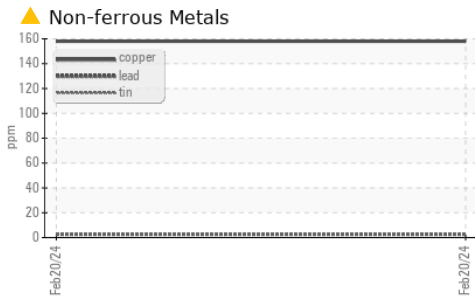
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	21	---	---
Potassium	ppm	ASTM D5185m	>20	10	---	---
Water		WC Method	>.2	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>.2	NEG	---	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m	37	<1	---	---
Barium	ppm	ASTM D5185m	7	5	---	---
Molybdenum	ppm	ASTM D5185m	5	2	---	---
Manganese	ppm	ASTM D5185m		7	---	---
Magnesium	ppm	ASTM D5185m	40	10	---	---
Calcium	ppm	ASTM D5185m	2650	2740	---	---
Phosphorus	ppm	ASTM D5185m	1050	950	---	---
Zinc	ppm	ASTM D5185m	1075	1154	---	---
Sulfur	ppm	ASTM D5185m	5750	7227	---	---
Visc @ 40°C	cSt	ASTM D445	194	196	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0194945 **Received** : 22 Feb 2024
Lab Number : 06097955 **Tested** : 23 Feb 2024
Unique Number : 10896185 **Diagnosed** : 25 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - STEPHENSON
 245 YARDMASTER COURT
 STEPHENSON, VA
 US 22656-1761
 Contact: PHIL DAUGHERTY
 pdaugherty@jamesriverequipment.com

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)

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