

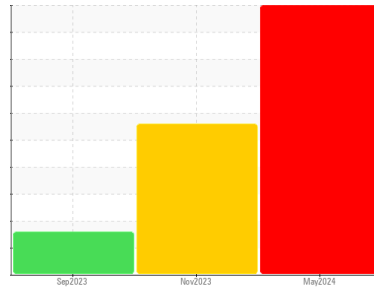


PROBLEM SUMMARY



Area
KANSAS/44
Machine Id
20.022L [KANSAS^44]
Component
Right Final Drive
Fluid
GEAR OIL SAE 75W140 (--- GAL)

Sample Rating Trend

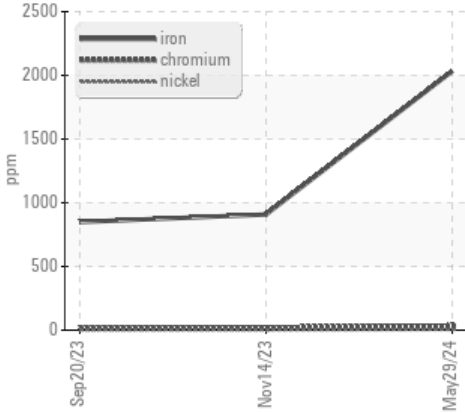


WEAR

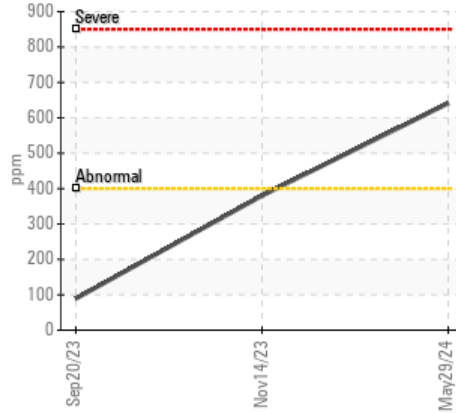


COMPONENT CONDITION SUMMARY

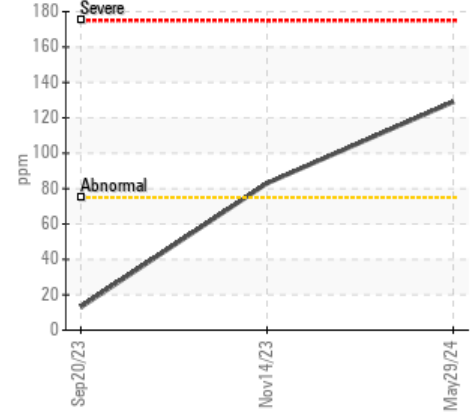
▲ Ferrous Alloys



▲ Silicon (ppm)



● Aluminum (ppm)



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>800	▲ 2033	▲ 908	▲ 849
Chromium	ppm	ASTM D5185m	>10	▲ 36	▲ 21	▲ 17
Nickel	ppm	ASTM D5185m	>5	▲ 5	3	2
Silicon	ppm	ASTM D5185m	>400	▲ 641	▲ 380	89
Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE

Customer Id: SHEWIC
Sample No.: WC0918069
Lab Number: 06205181
Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

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 Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

WATER



14 Nov 2023 Diag: Don Baldrige

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

[view report](#)



WEAR



20 Sep 2023 Diag: Don Baldrige

No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

[view report](#)



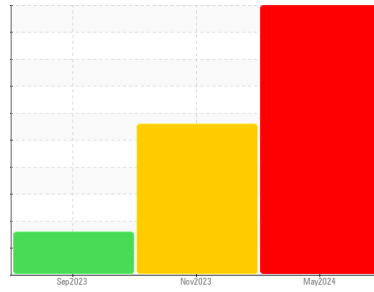


OIL ANALYSIS REPORT



Area
KANSAS/44
Machine Id
20.022L [KANSAS^44]
Component
Right Final Drive
Fluid
GEAR OIL SAE 75W140 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Gear wear is indicated.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0918069	WC0821613	WC0665270
Sample Date	Client Info		29 May 2024	14 Nov 2023	20 Sep 2023
Machine Age	hrs	Client Info	0	1501	4764
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Changed	Not Changd	N/A
Sample Status			SEVERE	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	▲ 2033	▲ 908	▲ 849
Chromium	ppm	ASTM D5185m >10	▲ 36	▲ 21	▲ 17
Nickel	ppm	ASTM D5185m >5	▲ 5	3	2
Titanium	ppm	ASTM D5185m >15	7	4	1
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >75	● 129	● 83	13
Lead	ppm	ASTM D5185m >10	<1	<1	<1
Copper	ppm	ASTM D5185m >75	17	9	8
Tin	ppm	ASTM D5185m >8	<1	<1	0
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 400	9	11	14
Barium	ppm	ASTM D5185m 200	23	32	32
Molybdenum	ppm	ASTM D5185m 12	8	13	15
Manganese	ppm	ASTM D5185m	22	12	9
Magnesium	ppm	ASTM D5185m 12	24	19	10
Calcium	ppm	ASTM D5185m 150	2087	3187	3349
Phosphorus	ppm	ASTM D5185m 1650	605	603	570
Zinc	ppm	ASTM D5185m 125	801	704	750
Sulfur	ppm	ASTM D5185m 22500	2529	2216	2823

CONTAMINANTS

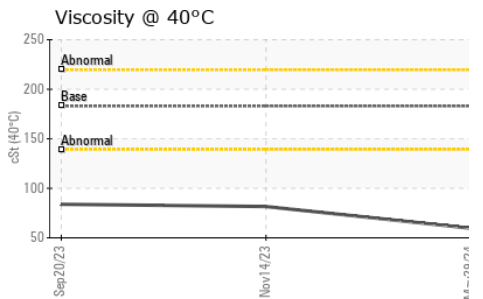
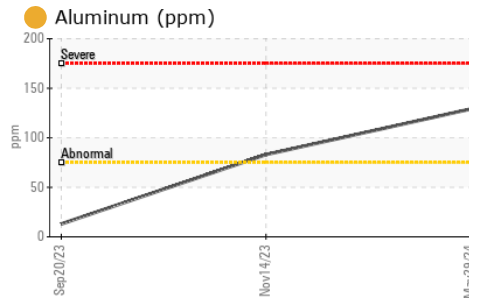
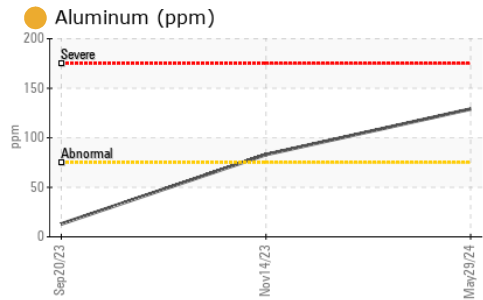
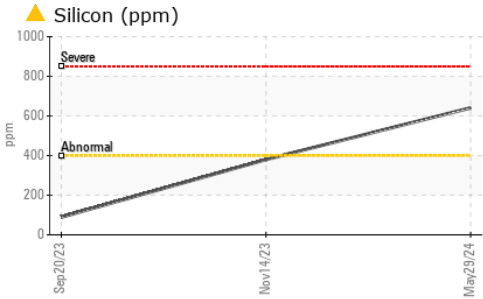
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	▲ 641	▲ 380	89
Sodium	ppm	ASTM D5185m	16	12	3
Potassium	ppm	ASTM D5185m >20	47	27	7

VISUAL

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



OIL ANALYSIS REPORT

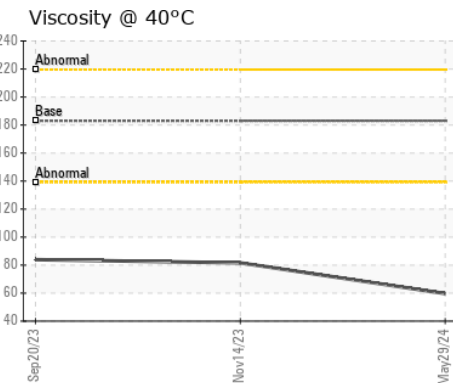
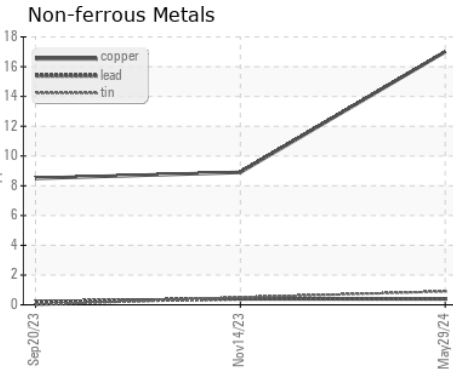
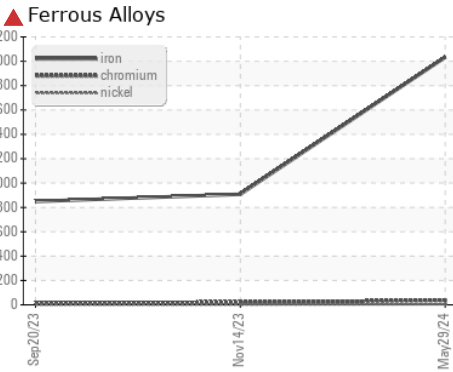


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	183	59.7	81.6	83.9

SAMPLE IMAGES		method	limit/base	current	history1	history2
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Color		no image	no image	no image
Bottom		no image	no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0918069 **Received** : 10 Jun 2024
Lab Number : **06205181** **Tested** : 12 Jun 2024
Unique Number : 11072642 **Diagnosed** : 12 Jun 2024 - Angela Borella
Test Package : CONST

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 T: (719)499-6303
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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)