



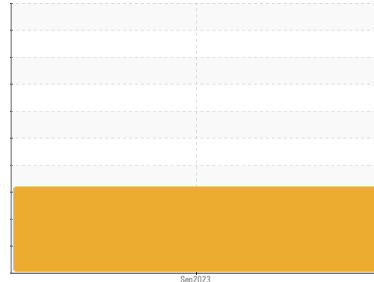
PROBLEM SUMMARY

Sample Rating Trend

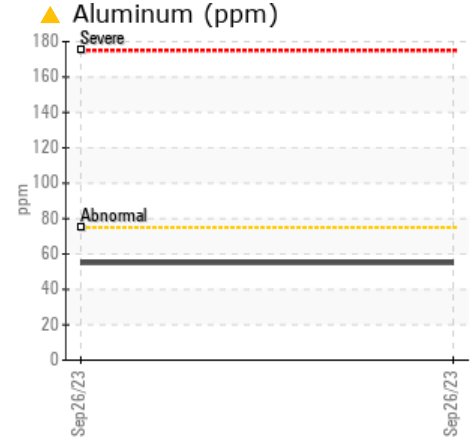
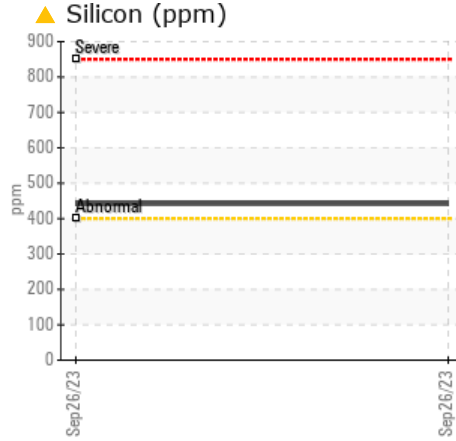
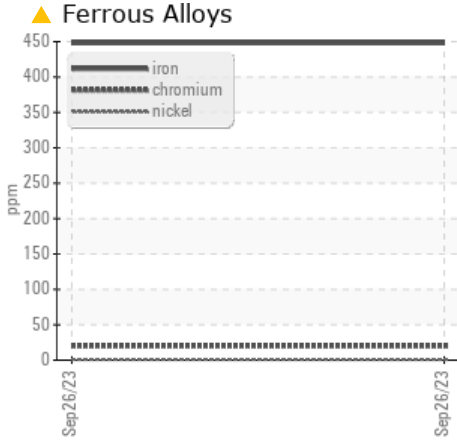
DIRT



Area
TULSA [18327]
 Machine Id
Cat D6N
 Component
Right Final Drive
 Fluid
NOT GIVEN (--- GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL		---	---
Chromium	ppm	ASTM D5185m >10	▲ 20	---
Aluminum	ppm	ASTM D5185m >75	▲ 55	---
Silicon	ppm	ASTM D5185m >400	▲ 442	---

Customer Id: MANTUL
 Sample No.: WC0818787
 Lab Number: 06010405
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Sean Felton +1 919-379-4092
sfelton@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
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



Area
TULSA [18327]
 Machine Id
Cat D6N
 Component
Right Final Drive
 Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

The chromium level is abnormal. All other component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0818787	---	---
Sample Date	Client Info		26 Sep 2023	---	---
Machine Age	hrs	Client Info	2675	---	---
Oil Age	hrs	Client Info	2675	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	448	---
Chromium	ppm	ASTM D5185m	>10	▲ 20	---
Nickel	ppm	ASTM D5185m	>5	<1	---
Titanium	ppm	ASTM D5185m	>15	6	---
Silver	ppm	ASTM D5185m	>2	0	---
Aluminum	ppm	ASTM D5185m	>75	▲ 55	---
Lead	ppm	ASTM D5185m	>10	0	---
Copper	ppm	ASTM D5185m	>75	4	---
Tin	ppm	ASTM D5185m	>8	0	---
Vanadium	ppm	ASTM D5185m		2	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	---
Barium	ppm	ASTM D5185m		5	---
Molybdenum	ppm	ASTM D5185m		13	---
Manganese	ppm	ASTM D5185m		8	---
Magnesium	ppm	ASTM D5185m		15	---
Calcium	ppm	ASTM D5185m		3246	---
Phosphorus	ppm	ASTM D5185m		1140	---
Zinc	ppm	ASTM D5185m		1282	---
Sulfur	ppm	ASTM D5185m		14066	---

CONTAMINANTS

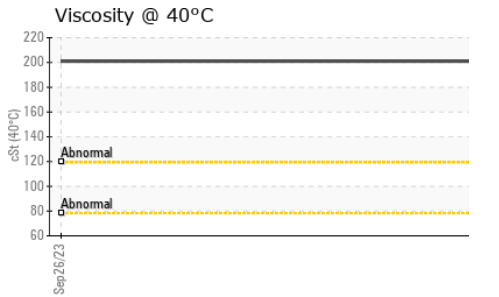
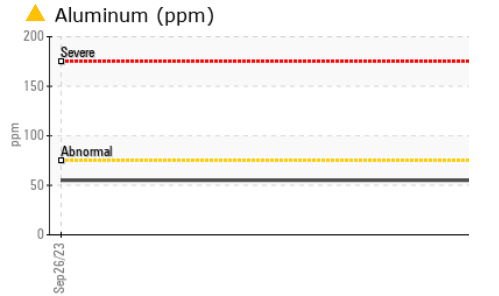
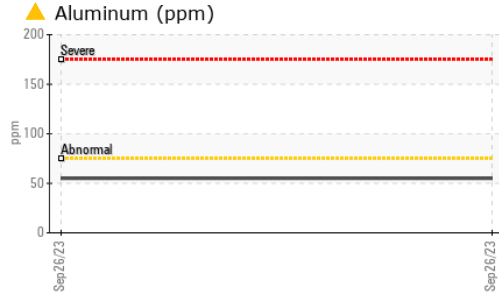
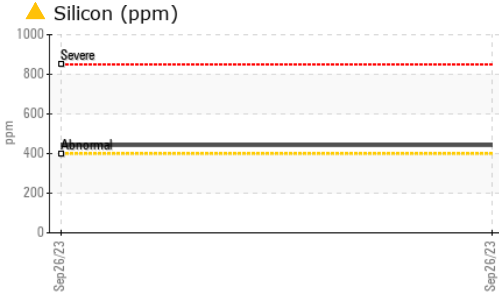
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	▲ 442	---
Sodium	ppm	ASTM D5185m		14	---
Potassium	ppm	ASTM D5185m	>20	36	---

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	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---



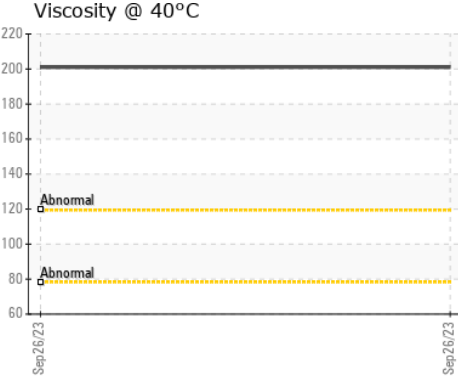
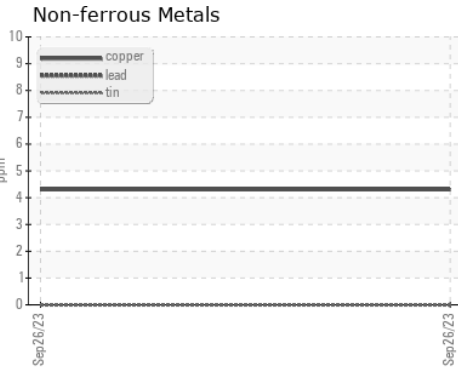
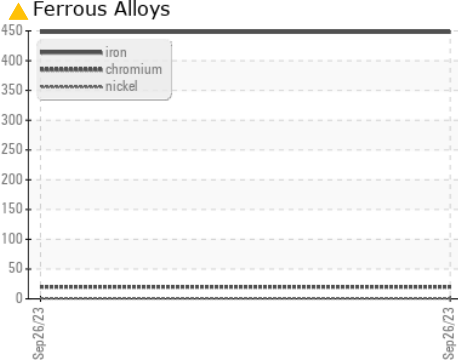
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	201	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0818787 **Received** : 16 Nov 2023
Lab Number : **06010405** **Diagnosed** : 20 Nov 2023
Unique Number : 10749549 **Diagnostician** : Sean Felton
Test Package : CONST

MANHATTAN ROAD AND BRIDGE
 5601 S 122ND E AVE
 TULSA, OK
 US 74146
 Contact: JAMES STEELMON
 james.steelmon@manhattanrb.com
 T:
 F:

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)