

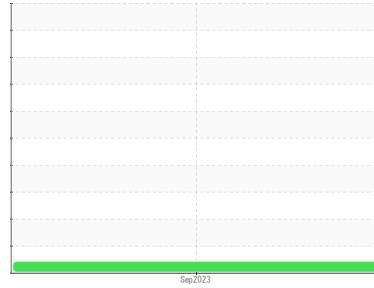


PROBLEM SUMMARY



Area
TULSA [18327]
 Machine Id
Cat D6N
 Component
Hydraulic System
 Fluid
CONOCO MEGAFLOW AW 32 (--- GAL)

Sample Rating Trend

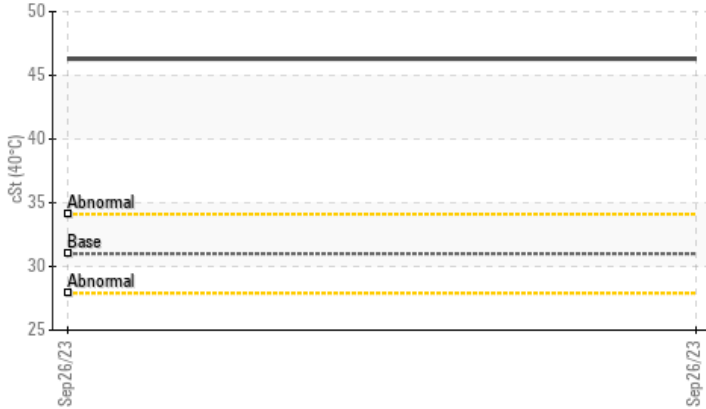


VISCOSITY



COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	---	---
Visc @ 40°C	cSt	ASTM D445	31.0	▲ 46.3	---	---

Customer Id: MANTUL
 Sample No.: WC0818788
 Lab Number: 06010161
 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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



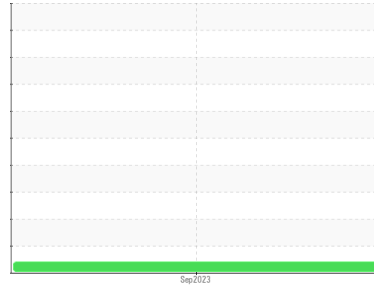
OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Area
TULSA [18327]
 Machine Id
Cat D6N
 Component
Hydraulic System
 Fluid
CONOCO MEGAFLOW AW 32 (--- GAL)



DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

▲ Fluid Condition

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0818788	---	---
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		ATTENTION	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >20	10	---	---
Chromium ppm	ASTM D5185m >10	1	---	---
Nickel ppm	ASTM D5185m >10	0	---	---
Titanium ppm	ASTM D5185m	<1	---	---
Silver ppm	ASTM D5185m	<1	---	---
Aluminum ppm	ASTM D5185m >10	4	---	---
Lead ppm	ASTM D5185m >10	1	---	---
Copper ppm	ASTM D5185m >75	14	---	---
Tin ppm	ASTM D5185m >10	<1	---	---
Vanadium ppm	ASTM D5185m	0	---	---
Cadmium ppm	ASTM D5185m	<1	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 0	4	---	---
Barium ppm	ASTM D5185m 0	0	---	---
Molybdenum ppm	ASTM D5185m 0	4	---	---
Manganese ppm	ASTM D5185m	<1	---	---
Magnesium ppm	ASTM D5185m 0	43	---	---
Calcium ppm	ASTM D5185m 80	468	---	---
Phosphorus ppm	ASTM D5185m 365	579	---	---
Zinc ppm	ASTM D5185m 500	736	---	---
Sulfur ppm	ASTM D5185m 1000	1652	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >20	12	---	---
Sodium ppm	ASTM D5185m	0	---	---
Potassium ppm	ASTM D5185m >20	0	---	---

FLUID CLEANLINESS

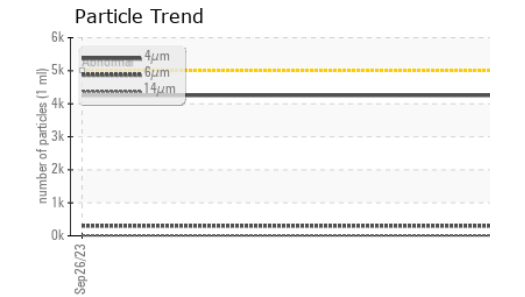
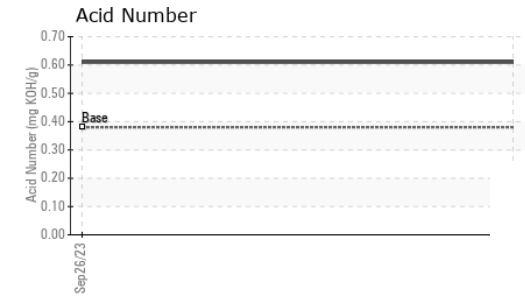
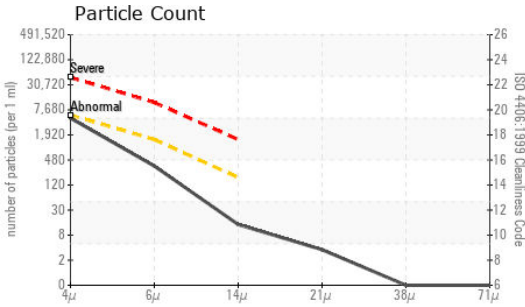
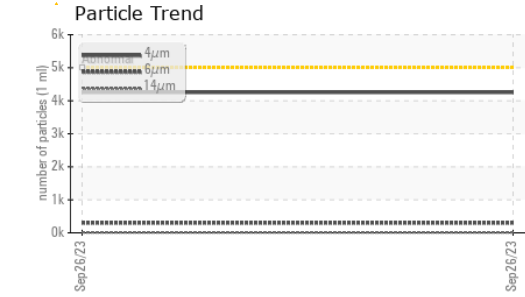
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	4253	---	---
Particles >6µm	ASTM D7647 >1300	302	---	---
Particles >14µm	ASTM D7647 >160	12	---	---
Particles >21µm	ASTM D7647 >40	3	---	---
Particles >38µm	ASTM D7647 >10	0	---	---
Particles >71µm	ASTM D7647 >3	0	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	19/15/11	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 0.38	0.61	---	---



OIL ANALYSIS REPORT

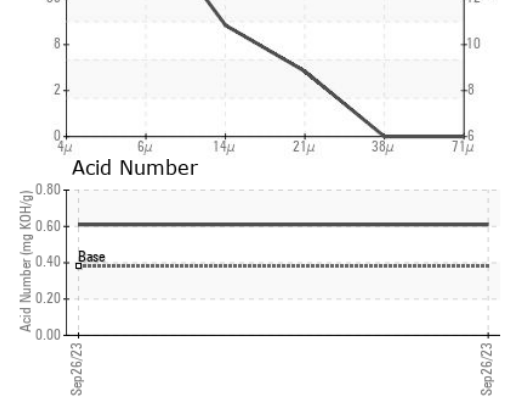
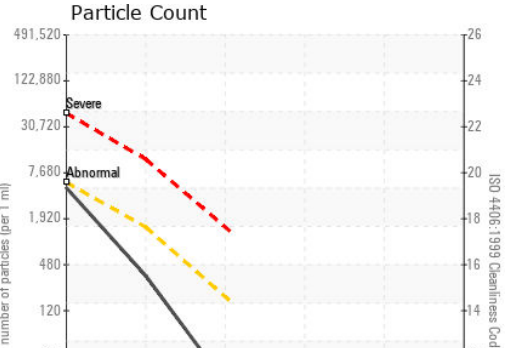
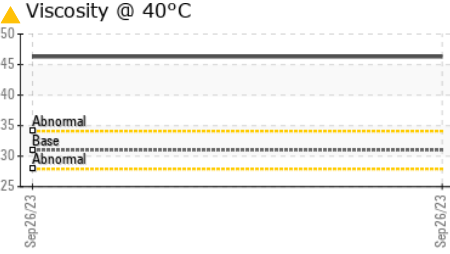
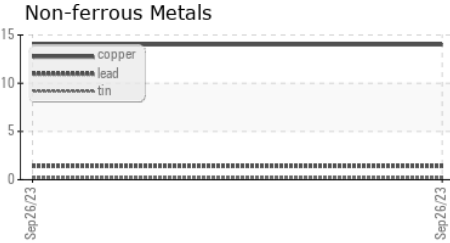
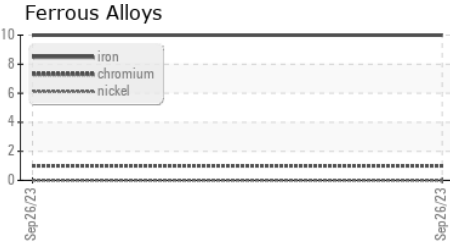


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	31.0 ▲ 46.3	---	---

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. : WC0818788 **Received** : 16 Nov 2023
Lab Number : 06010161 **Diagnosed** : 20 Nov 2023
Unique Number : 10749305 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PrtCount)

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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)