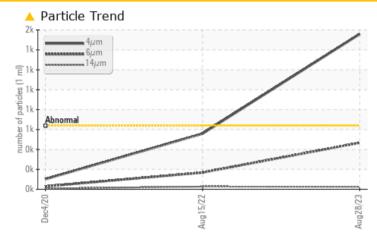
PROBLEM SUMMARY

Area CTF Machine Id Dyno Side B Component Main Hydraulic System Fluid ESSO NUTO H ISO 46 (250 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Fluid and Filters Changed in August 2022 Filters changed again in August 2023)

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ATTENTION	NORMAL
Particles >4µm	ASTM D7647	>640	<u> </u>	558	101
Particles >6µm	ASTM D7647	>160	🔺 467	1 68	29
Particles >14µm	ASTM D7647	>20	<u> </u>	<u> </u>	7
Particles >21µm	ASTM D7647	>4	<u> </u>	<u> </u>	4
Oil Cleanliness	ISO 4406 (c)	>16/14/11	<u> </u>	▲ 16/15/12	14/12/10

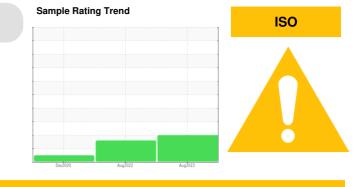
Customer Id: MICGRE Sample No.: WC0810915 Lab Number: 05938896 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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



RECOMMENDED ACTIONS

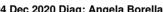
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

15 Aug 2022 Diag: Jonathan Hester



No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





04 Dec 2020 Diag: Angela Borella



Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report





OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

limit/base



history1

current

history2

Dyno Side B Component Main Hydraulic System Fluid ESSO NUTO H ISO 46 (250 GAL)

DIAGNOSIS

Area CTF

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Fluid and Filters Changed in August 2022 Filters changed again in August 2023)

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.

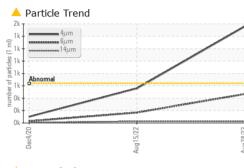
SAMPLE INFURI	MATION	method	iinii/base	current	nistory i	nistory2
Sample Number		Client Info		WC0810915	WC0500751	WC0500743
Sample Date		Client Info		28 Aug 2023	15 Aug 2022	04 Dec 2020
Machine Age		Client Info		34	32	0
Oil Age		Client Info		1	3	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	0
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m		1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m	~			0
Vanadium		ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm			-	-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	5	0	1	0
Calcium	ppm	ASTM D5185m	50	50	54	48
Phosphorus	ppm	ASTM D5185m	330	331	366	375
Zinc	ppm	ASTM D5185m	410	412	497	450
Sulfur	ppm	ASTM D5185m	2700	7298	3770	1017
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.05	0.002		
ppm Water	ppm	ASTM D6304	>500	18.7		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>640	A 1558	558	101
Particles >6µm		ASTM D7647	>160	<u> </u>	1 68	29
Particles >14µm		ASTM D7647	>20	<u> </u>	1 27	7
Particles >21µm		ASTM D7647	>4	<u> </u>	<u> </u>	4
Particles >38µm		ASTM D7647	>3	1	1	1
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>16/14/11	A 18/16/12	▲ 16/15/12	14/12/10
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.45	0.24	0.25	0.305
:50:49) Rev: 1	U U				ed By: TECHNIC	
					,	

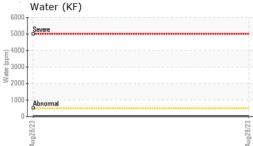
Report Id: MICGRE [WUSCAR] 05938896 (Generated: 11/03/2023 12:50:49) Rev: 1

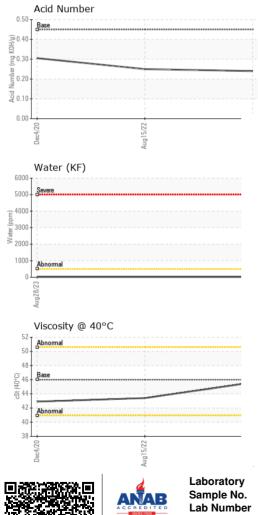
Page 3 of 4



OIL ANALYSIS REPORT

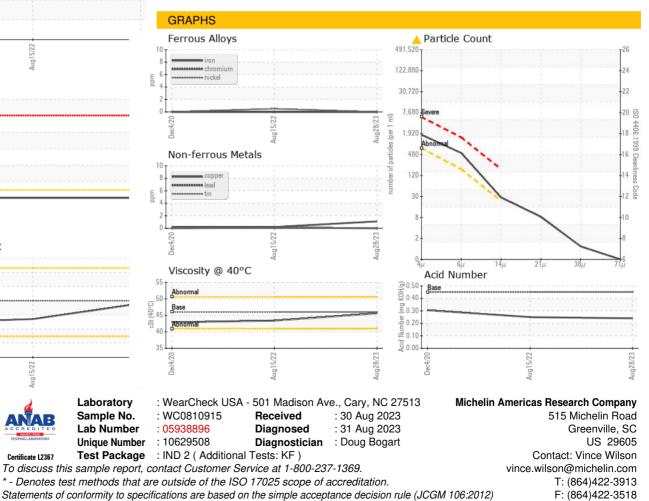






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	45.6	43.4	42.9
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color						
Bottom						

Bottom



Submitted By: TECHNICIAN ACCOUNT