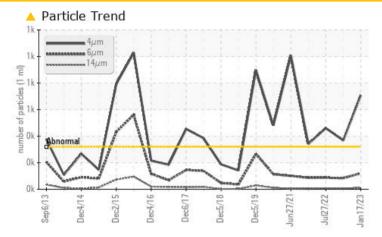


## **PROBLEM SUMMARY**

# REDIFFUSION 767-ER (S/N FLIGHT SIMULATOR)

Hydraulic System Fluid MOBIL DTE 24 (400 GAL)

## COMPONENT CONDITION SUMMARY



### RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS						
Sample Status			ABNORMAL	ATTENTION	ATTENTION	
Particles >4µm	ASTM D7647	>320	<u> </u>	<b>A</b> 368	<b>460</b>	
Particles >6µm	ASTM D7647	>80	<u> </u>	<b>A</b> 83	<b>A</b> 87	
Oil Cleanliness	ISO 4406 (c)	>15/13/10	<u> </u>	▲ 16/14/10	▲ 16/14/10	

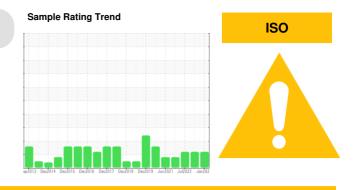
Customer Id: BOEMIA Sample No.: ST44808 Lab Number: 06009086 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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 Filter			?	We recommend you service the filters on this component.		
Resample			?	We recommend an early resample to monitor this condition.		

## HISTORICAL DIAGNOSIS



## 30 Dec 2022 Diag: Don Baldridge

Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



## 27 Jul 2022 Diag: Jonathan Hester



Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### 15 Feb 2022 Diag: Doug Bogart



# Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present 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**

## Machine Id **REDIFFUSION 767-ER (S/N FLIGHT SIMULATOR)** Component

**Hydraulic System** MOBIL DTE 24 (400 GAL)

## DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

## Wear

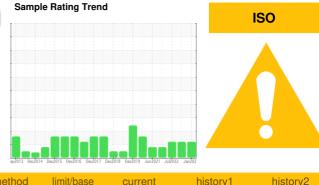
All component wear rates are normal.

## Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

## Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



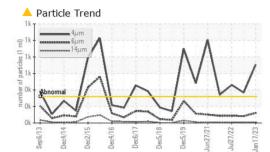
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ST44808	ST40589	ST40997
Sample Date		Client Info		17 Jan 2023	30 Dec 2022	27 Jul 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	<1	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		6	0	<1
Molybdenum	ppm	ASTM D5185m		11	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		3	0	1
Calcium	ppm	ASTM D5185m		118	119	112
Phosphorus	ppm	ASTM D5185m		509	441	431
Zinc	ppm	ASTM D5185m		689	664	648
Sulfur	ppm	ASTM D5185m		2908	2827	2996
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m		2	2	2
Sodium	ppm ppm	ASTM D5185m	>15	0	<1	<1
Potassium		ASTM D5185m	>20	۰ <1	0	0
Water	ppm %	ASTM D518511		0.012	0.010	0.009
ppm Water	ppm	ASTM D0304 ASTM D6304	>500	121.3	101.4	93.8
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm	200	ASTM D7647	>320	▲ 707	▲ 368	▲ 460
Particles >6µm		ASTM D7647 ASTM D7647		▲ 120	▲ 83	▲ 400 ▲ 87
Particles >6µm Particles >14µm		ASTM D7647 ASTM D7647	>80 >10	120	7	8
Particles >21µm		ASTM D7647 ASTM D7647		4	2	2
Particles >38µm		ASTM D7647 ASTM D7647	>3	4	1	0
Particles >30µm		ASTM D7647 ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>3 >15/13/10	0 <u> </u>	↓ 16/14/10	↓ 16/14/10
FLUID DEGRADA		method	limit/base	current	history1	history2
			-inniv Dase			
Acid Number (AN)	mg KOH/g	ASTM D8045		0.72	0.78	0.925

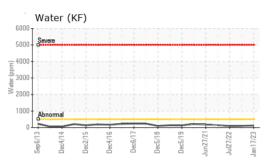
Acid Number (AN) Report Id: BOEMIA [WUSCAR] 06009086 (Generated: 11/16/2023 17:10:27) Rev: 1

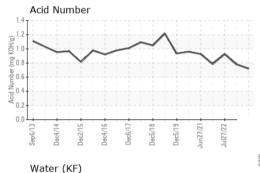
Contact/Location: OSCAR DELGADO - BOEMIA

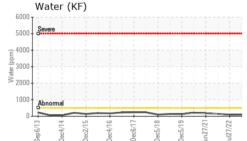


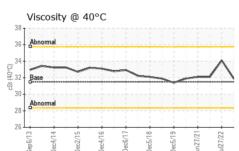
# **OIL ANALYSIS REPORT**







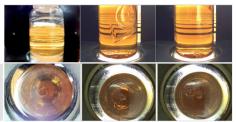




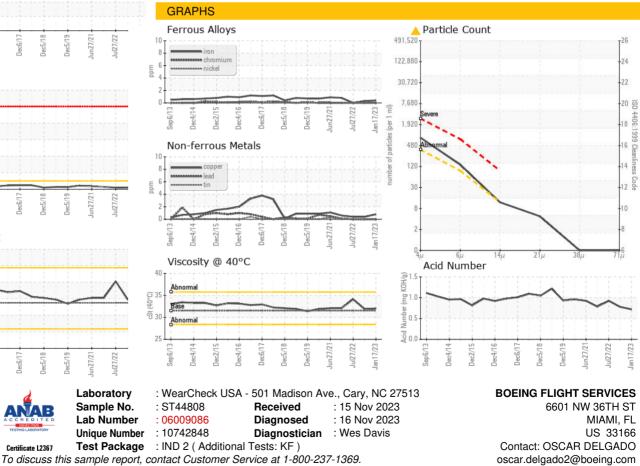
e

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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	31.5	32.0	31.9	34.1
SAMPLE IMAGES	S	method	limit/base	current	history1	history2

Color



Bottom



\* - 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)

Certificate L2367

F:

T: (786)265-4700