

## **OIL ANALYSIS REPORT**

WATER

### Area SSC MIRO 1 (S/N 003) Component Transmission (Manual) Fluid DTE 10 (15 GAL)

### DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### Wear

All component wear rates are normal.

### Contamination

Appearance is hazy. Moderate concentration of visible dirt/debris present in the fluid. There is a light concentration of water present in the fluid.

### Fluid Condition

The AN level is acceptable for this fluid.

# 

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012345	USP0013290	USP0012828
Sample Date		Client Info		12 Jul 2024	10 Jun 2024	24 May 2024
Machine Age	hrs	Client Info		0	56978	56731
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	5	<1	2
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>7	0	0	<1
Aluminum	ppm	ASTM D5185m	>25	0	0	<1
Lead	ppm	ASTM D5185m	>45	4	1	2
Copper	ppm	ASTM D5185m	>225	<1	1	<1
Tin	ppm	ASTM D5185m	>10	2	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	<1	2
Calcium	ppm	ASTM D5185m		59	54	74
Phosphorus	ppm	ASTM D5185m		138	105	225
Zinc	ppm	ASTM D5185m		0	2	0
Sulfur	ppm	ASTM D5185m		622	551	1112
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	nnm	ASTM D5185m	125	2	1	-1
Sodium	ppm	ASTM D5185m	>125	2	2	2
Potassium	ppm	ASTM D5185m	>20	2 -1	0	2
Water	٥ <u>/</u>		>0.1	<ul> <li>0 407</li> </ul>	0.001	0.003
ppm Water	ppm	ASTM D6304	>1000	▲ 4072	12	35
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4um		ASTM D7647	>10000		2098	3449
Particles >6um		ASTM D7647	>2500		551	859
Particles >14um		ASTM D7647	>320		13	52
Particles >21um		ASTM D7647	>80		1	8
Particles >38um		ASTM D7647	>20		0	0
Particles >71um		ASTM D7647	>4		0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15		18/16/11	19/17/13
FLUID DEGRADA	TION	method	limit/base	current	historv1	historv2
Acid Number (AN)	mg KOH/a	ASTM D8045		0.232	0.192	0.09



# **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	A MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	🛑 HAZY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>6.2%</b>	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		147	147	153
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						





Non-ferrous Metals







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **EMPIRICAL FOODS INC. - BPISOUPRO - EMPSOUPRO** Sample No. : USP0012345 Received : 15 Jul 2024 Lab Number : 06236876 Tested : 18 Jul 2024 S. SIOUX CITY, NE Unique Number : 11125710 Diagnosed : 18 Jul 2024 - Doug Bogart US Test Package : IND 2 Contact: Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. T: \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: BPISSC [WUSCAR] 06236876 (Generated: 07/18/2024 14:32:15) Rev: 1

Contact/Location: - BPISSC Page 2 of 2