

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area SSC NIRO 4 (S/N 006) Component Transmission (Manual) DTE 10/150 (15 GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

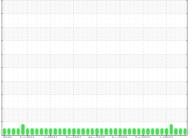
All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

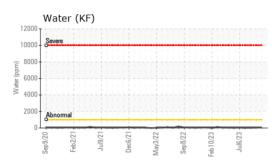


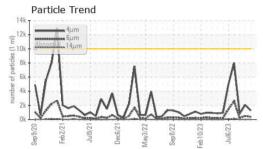


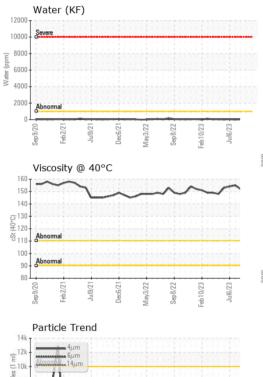
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP246493	USP0002756	USP239568
Sample Date		Client Info		10 Nov 2023	19 Oct 2023	06 Sep 2023
Machine Age	mths	Client Info		0	0	1
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	3	2	<1
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	0
Lead	ppm	ASTM D5185m	>45	3	3	0
Copper	ppm	ASTM D5185m	>225	1	3	0
Tin	ppm	ASTM D5185m	>10	1	2	0
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		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	0	3
Calcium	ppm	ASTM D5185m		65	67	41
Phosphorus	ppm	ASTM D5185m		125	124	179
Zinc	ppm	ASTM D5185m		2	2	5
Sulfur	ppm	ASTM D5185m		925	922	1383
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	<1	1	2
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m	>20	0	<1	1
Water	%	ASTM D6304	>0.1	0.005	0.004	0.003
ppm Water	ppm	ASTM D6304	>1000	59.8	49.1	27.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1288	2068	804
Particles >6µm		ASTM D7647	>2500	386	494	233
Particles >14µm		ASTM D7647	>320	24	24	16
Particles >21µm		ASTM D7647	>80	5	5	4
Particles >38µm		ASTM D7647	>20	0	1	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/16/12	18/16/12	17/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.09	0.213	0.08

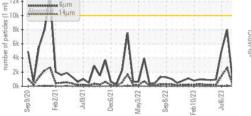


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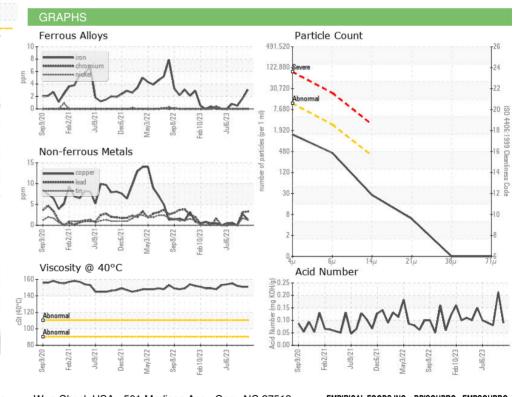






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		151	151	152
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				•		
				1		11-21

Bottom



EMPIRICAL FOODS INC. - BPISOUPRO - EMPSOUPRO Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : USP246493 Received : 17 Nov 2023 Lab Number : 06010867 S. SIOUX CITY, NE Diagnosed : 20 Nov 2023 : 10750011 **Unique Number** Diagnostician : Doug Bogart Test Package : IND 2 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)

T: F:

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Contact/Location: - BPISSC Page 2 of 2