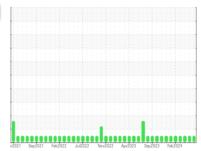


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



SSC Machine Id NIRO 1 (S/N 003)

Transmission (Manual)
Fluid
DTE 10/150 (15 GAL)

DIAGNOSIS

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.

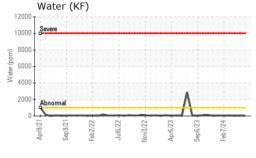
Fluid Condition

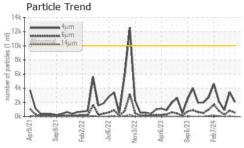
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

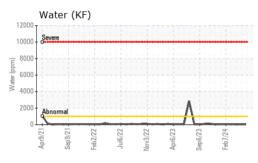
		ir2021 Sep20	21 Feb2022 Jul2022	Nov2022 Apr2023 Sep2023 1	eb 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0013290	USP0012828	USP0006330
Sample Date		Client Info		10 Jun 2024	24 May 2024	08 Apr 2024
Machine Age	hrs	Client Info		56978	56731	0
Oil Age	hrs	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	<1	2	2
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>7	0	<1	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	<1
Lead	ppm	ASTM D5185m	>45	1	2	1
Copper	ppm	ASTM D5185m	>225	1	<1	6
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	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		<1	<1	1
Magnesium	ppm	ASTM D5185m		<1	2	3
Calcium	ppm	ASTM D5185m		54	74	79
Phosphorus	ppm	ASTM D5185m		105	225	316
Zinc	ppm	ASTM D5185m		2	0	0
Sulfur	ppm	ASTM D5185m		551	1112	1591
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	1	<1	<1
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	0	2	2
Water	%	ASTM D6304	>0.1	0.001	0.003	0.002
ppm Water	ppm	ASTM D6304	>1000	12	35	17
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	2098	3449	898
Particles >6µm		ASTM D7647	>2500	551	859	267
Particles >14µm		ASTM D7647	>320	13	52	17
Particles >21µm		ASTM D7647	>80	1	8	6
Particles >38μm		ASTM D7647	>20	0	0	1
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/16/11	19/17/13	17/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.192	0.09	0.09

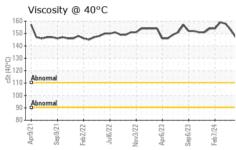


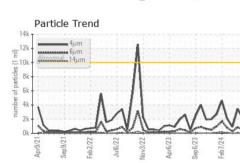
OIL ANALYSIS REPORT

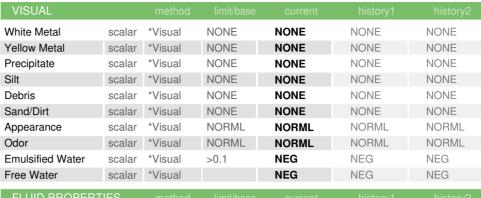












FLUID FROFE	N I IES	memou		HISTOLAL	HISTORYZ
Visc @ 40°C	cSt	ASTM D445	147	153	158

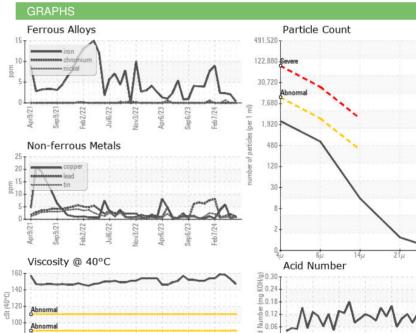
SAMPLE	IMAGES

Bottom

Color

0.00 Acid









Laboratory Sample No.

Unique Number : 11084556

100

: USP0013290 Lab Number : 06211692

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024

Tested : 18 Jun 2024 Diagnosed : 20 Jun 2024 - Doug Bogart

S. SIOUX CITY, NE

EMPIRICAL FOODS INC. - BPISOUPRO - EMPSOUPRO

US Contact:

Test Package : IND 2 Certificate 12367

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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: