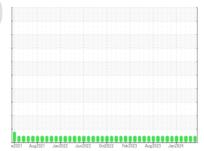


OIL ANALYSIS REPORT

Sample Rating Trend







Area SSC MacMine Id NIRO 2 (S/N 004) Component

Transmission (Manual)

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 component. The amount and size of particulates present in the system is acceptable.

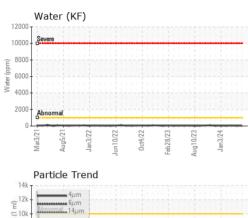
Fluid Condition

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

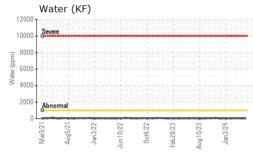
		972021 Aug20	21 Jan2022 Jun2022	Oct2022 Feb2023 Aug2023	Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012830	USP0006781	USP0005836
Sample Date		Client Info		24 May 2024	08 Apr 2024	07 Mar 2024
Machine Age	hrs	Client Info		7754	0	6403
Oil Age	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	4	2	<1
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>7	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	0
Lead	ppm	ASTM D5185m	>45	1	0	0
Copper	ppm	ASTM D5185m	>225	<1	7	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	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		<1	1	<1
Magnesium	ppm	ASTM D5185m		3	4	0
Calcium	ppm	ASTM D5185m		60	81	41
Phosphorus	ppm	ASTM D5185m		282	435	248
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		1201	1796	1235
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	<1	<1	0
Sodium	ppm	ASTM D5185m		1	3	<1
Potassium	ppm	ASTM D5185m	>20	1	1	0
Water	%	ASTM D6304	>0.1	0.003	0.001	0.004
ppm Water	ppm	ASTM D6304	>1000	30	15	48
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	868	1870	572
Particles >6µm		ASTM D7647	>2500	162	477	147
Particles >14µm		ASTM D7647	>320	11	21	10
Particles >21µm		ASTM D7647	>80	3	2	2
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/15/11	18/16/12	16/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.091	0.06	0.132

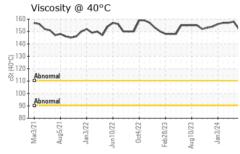


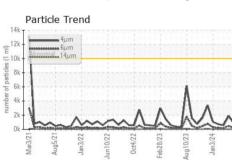
OIL ANALYSIS REPORT

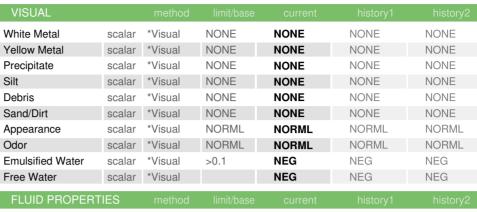


12k - Abn		um Hµm					
8k -							
6k						A	
4k - 2k - 1				٨	٨	Λ	Λ.
0k	****		~		1	1/1	シソ
Mar3/2	2/5	Jan3/22	Jun10/22	Oct4/22	Feb28/23	Aug10/23	Jan3/24





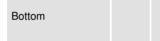




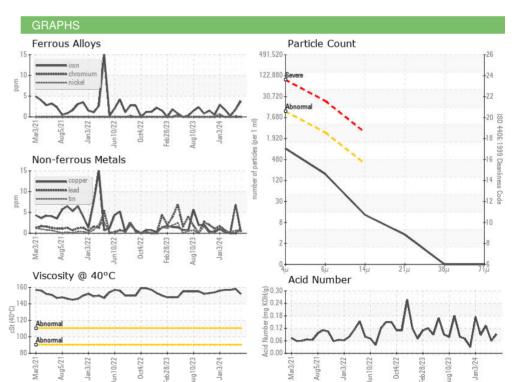
FLUID PROPER	RIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 40°C	cSt	ASTM D445		152	158	157

SAMPLE IMAGES	method	

Color











Certificate 12367

Laboratory Sample No.

Test Package : IND 2

: USP0012830 Lab Number : 06194000 Unique Number : 11056123

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 May 2024

Tested : 30 May 2024 : 31 May 2024 - Doug Bogart Diagnosed

EMPIRICAL FOODS INC. - BPISOUPRO - EMPSOUPRO

S. SIOUX CITY, NE US Contact:

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: