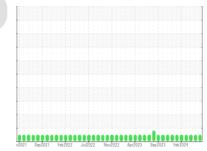


OIL ANALYSIS REPORT

Sample Rating Trend





DTE 10/150 (15 GAL)

DIAGNOSIS

Area SSC

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

NIRO 4 (S/N 006) Component Transmission (Manual)

Contamination

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

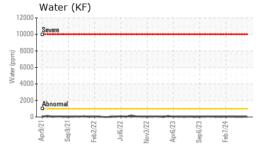
Fluid Condition

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

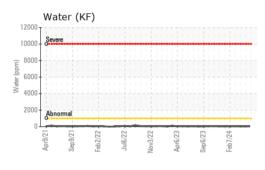
CAMPLE INCOR	AATION		11 12 12			
SAMPLE INFORM	MATION	method	limit/base		history1	history2
Sample Number		Client Info		USP0013291	USP0012829	USP0006780
Sample Date		Client Info		10 Jun 2024	24 May 2024	08 Apr 2024
Machine Age	hrs	Client Info		56340	56084	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		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	<1	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		0	<1	<1
Lead	ppm	ASTM D5185m	>45	3	4	2
Copper	ppm	ASTM D5185m	>225	1	1	12
Tin	ppm	ASTM D5185m	>10	1	2	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	<1	3
Calcium	ppm	ASTM D5185m		69	91	76
Phosphorus	ppm	ASTM D5185m		140	155	477
Zinc	ppm	ASTM D5185m		3	<1	0
Sulfur	ppm	ASTM D5185m		969	1119	1888
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	1	1	<1
Sodium	ppm	ASTM D5185m		1	<1	2
Potassium	ppm	ASTM D5185m	>20	0	1	2
Water	%	ASTM D6304	>0.1	0.003	0.002	0.002
ppm Water	ppm	ASTM D6304	>1000	37	24	18
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	711	1883	7172
Particles >6µm		ASTM D7647	>2500	150	290	1149
Particles >14µm		ASTM D7647	>320	3	12	33
Particles >21µm		ASTM D7647	>80	0	2	7
Particles >38μm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/14/9	18/15/11	20/17/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.08	0.086	0.06

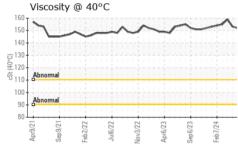


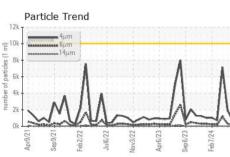
OIL ANALYSIS REPORT

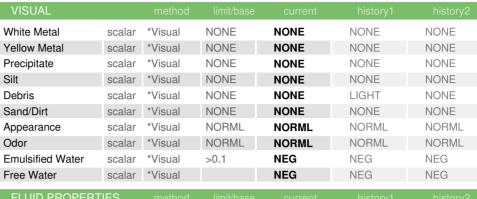


Par	ticle T	rend						
AUII AUIII		m						
8k -		ZM .				1		
8k - 6k - 4k - 2k - 2k - 2k - 2k - 2k - 2k - 2		٨				Λ		
Jagunu 2k	M	Λ	٨			A.		
0k	7.	M	W	~	أسيد	1	1	11
Apr9/2	Sep9/2	Feb2/22	Jul6/22	Nov3/22	Apr6/23	Sep6/23	Feb7/24	









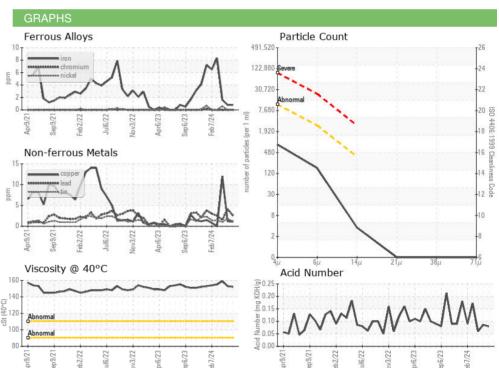
I LOID I NOI LI	TILO	memou		riistory i	HISTORYZ
Visc @ 40°C	cSt	ASTM D445	152	153	159

SAMPLE IMAGES	

Bottom

Color









Certificate 12367

Sample No. Lab Number

Laboratory

Test Package : IND 2

: USP0013291 : 06211691 Unique Number : 11084555

: 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:

T:

F:

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)