

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

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





n2020 Nov2020 Apr2021 Sto2021 Feb2022 Jul2022 Nov2022 Apr2023

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP239576	USP239563	USP239567
Sample Date		Client Info		10 Aug 2023	06 Jul 2023	06 Jun 2023
Machine Age	mths	Client Info		1	1	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	2	<1	0
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	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	<1
Lead	ppm	ASTM D5185m	>45	2	4	2
Copper	ppm	ASTM D5185m	>225	6	<1	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	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		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		2	0	0
Calcium	ppm	ASTM D5185m		91	63	76
Phosphorus	ppm	ASTM D5185m		395	162	138
Zinc	ppm	ASTM D5185m		<1	6	0
Sulfur	ppm	ASTM D5185m		2273	1276	1185
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	<1	0	<1
Sodium	ppm	ASTM D5185m	2120	0	1	<1
Potassium	ppm	ASTM D5185m	>20	۰ <1	0	0
Water	%	ASTM D6304		0.001	0.004	0.003
ppm Water	ppm	ASTM D6304		9.6	45.4	35.1
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	6143	309	372
Particles >6µm		ASTM D7647		1771	106	131
Particles >14µm		ASTM D7647	>320	102	11	10
Particles >21µm		ASTM D7647		13	3	2
Particles >38µm		ASTM D7647	>20	0	1	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	20/18/14	15/14/11	16/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.078	0.09	0.170



Water

1.20

0.9

OIL ANALYSIS REPORT

scalar

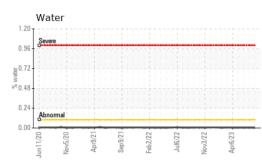
scalar

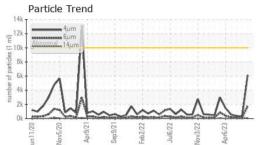
scalar

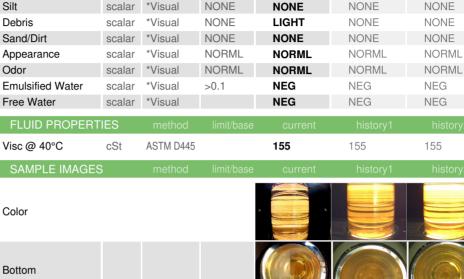
*Visual

*Visual

*Visual







NONE

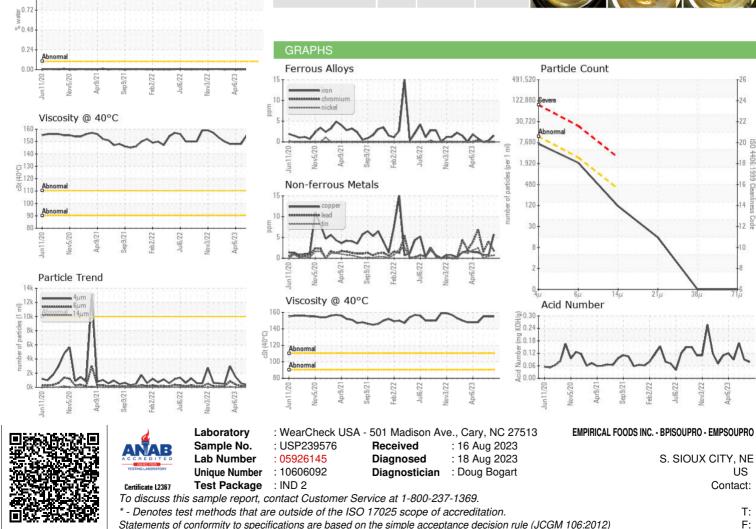
Bottom

White Metal

Yellow Metal

Precipitate

Silt



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: - BPISSC Page 2 of 2