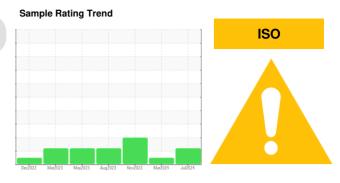


OIL ANALYSIS REPORT

PNEX [PNEX] TOTE 23 - TURBINE 150

New (Unused) Oil

BELRAY Turbine Oil 150 (275 GAL)



DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

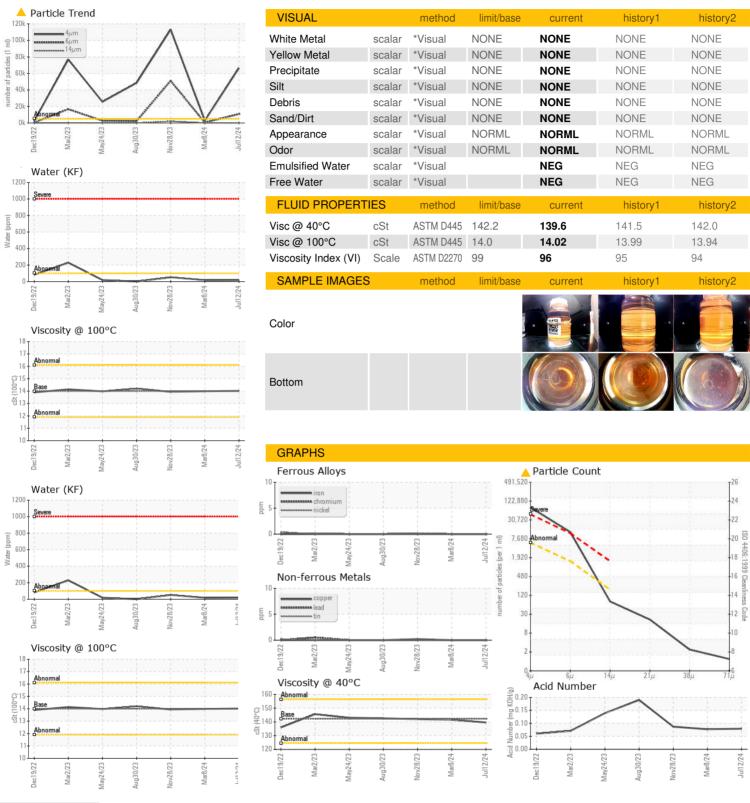
Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0042862	RP0042879	RP0038971
Sample Date		Client Info		12 Jul 2024	08 Mar 2024	28 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>5	0	0	0
Chromium	ppm	ASTM D5185m	>5	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>5	0	0	2
Lead	ppm	ASTM D5185m	>5	0	0	0
Copper	ppm	ASTM D5185m	>5	0	0	<1
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	- ' '	method	limit/base	current	history1	history2
			III III Dasc			
Boron	ppm	ASTM D5185m		0	0	3
Barium	ppm	ASTM D5185m		<1	0	2
Molybdenum	ppm	ASTM D5185m		0	1	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		3	0	30
Calcium	ppm	ASTM D5185m		6	3	57
Phosphorus	ppm	ASTM D5185m		27	19	66
Zinc	ppm	ASTM D5185m		8	0	30
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	2	0
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304		0.002	0.002	0.005
ppm Water	ppm	ASTM D6304		19	17	52
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	△ 66580	2804	<u></u> 113232
Particles >6μm		ASTM D7647	>1300	<u> </u>	467	<u></u> 51093
Particles >14µm		ASTM D7647	>160	68	24	2 061
Particles >21µm		ASTM D7647	>40	18	4	△ 48
Particles >38µm		ASTM D7647	>10	2	0	1
Particles >71µm		ASTM D7647	>3	1	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 23/21/13	19/16/12	2 4/23/18
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.079	0.077	0.087



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No. Lab Number

: 06238298 Unique Number : 11127132

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RP0042862 Received : 16 Jul 2024 **Tested** : 19 Jul 2024

Diagnosed Test Package: IND 2 (Additional Tests: FT-IR, KV100, PrtCount, VI)

: 19 Jul 2024 - Jonathan Hester

US 71109 Contact: NICHOLAS LESAGE nicholas.lesage@clmt.com T:

3333 MIDWAY AVENUE

SHREVEPORT, LA

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)

F:

CALUMET