

OIL ANALYSIS REPORT

Area CDW Machine Id [CDW] TOTE 20 - TURBINE 150

New (Unused) Oil

BELRAY Turbine Oil 150 (500 GAL)

DIAGNOSIS

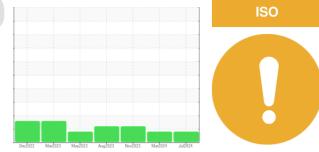
Recommendation

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

Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

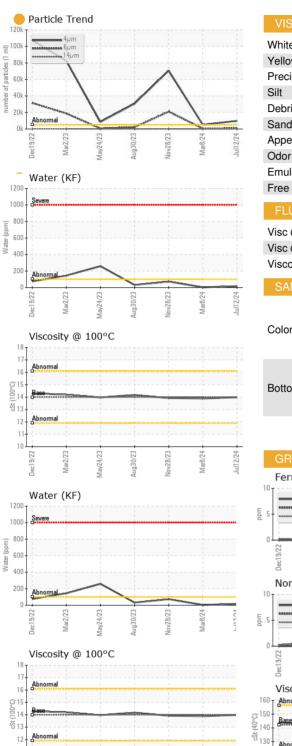
		Dec2022	Mar2023 May2023	Aug2023 Nov2023 Mar2024	Jul2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0042847	RP0042880	RP0038976
Sample Date		Client Info		12 Jul 2024	08 Mar 2024	28 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	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
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	2
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		3	0	1
Calcium	ppm	ASTM D5185m		5	0	3
Phosphorus	ppm	ASTM D5185m		26	10	29
Zinc	ppm	ASTM D5185m		6	0	0
CONTAMINANTS	\$	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	5	0
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304		0.002	0.001	0.007
ppm Water	ppm	ASTM D6304		17	3	73
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	9845	5238	A 70686
Particles >6µm		ASTM D7647	>1300	840	498	A 21063
Particles >14µm		ASTM D7647	>160	19	14	92
Particles >21µm		ASTM D7647	>40	4	2	11
Particles >38µm		ASTM D7647	>10	0	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	e 20/17/11	20/16/11	▲ 23/22/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.14	0.088	0.082



Sample Rating Trend



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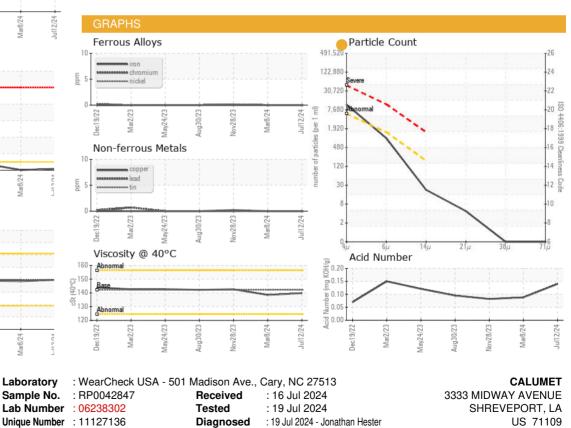
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	142.2	139.8	138.5	142.6
Visc @ 100°C	cSt	ASTM D445	14.0	13.99	13.88	13.92
Viscosity Index (VI)	Scale	ASTM D2270	99	96	96	93
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					a.	•

Bottom

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

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

* - 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) Report Id: CALSHR [WUSCAR] 06238302 (Generated: 07/21/2024 12:51:54) Rev: 1

Certificate 12367

Jav 28/23

Mar8/24

10

Dec19/22

May24/23

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