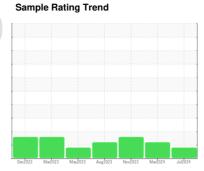


# **OIL ANALYSIS REPORT**

# FLARE Machine Id [FLARE] TOTE 19 - TURBINE 150

New (Unused) Oil

BELRAY Turbine Oil 150 (1000 GAL)





### 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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0042846	RP0042875	RP0038972
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	<1
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		1	0	0
Barium	ppm	ASTM D5185m		<1	0	2
Molybdenum	ppm	ASTM D5185m		2	<1	1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		11	0	8
Calcium	ppm	ASTM D5185m		28	10	17
Phosphorus	ppm	ASTM D5185m		49	23	45
Zinc	ppm	ASTM D5185m		27	0	6
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	3	<1
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304		0.001	0.003	0.004
ppm Water	ppm	ASTM D6304		9	31	47
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>5685</b>	10000	△ 50484
Particles >6µm		ASTM D7647	>1300	1124	1879	<u>▲</u> 12463
Particles >14µm		ASTM D7647	>160	76	42	<b>△</b> 349
Particles >21µm		ASTM D7647	>40	22	2	23
Particles >38µm		ASTM D7647	>10	3	0	3
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>20/17/13</b>	20/18/13	<b>△</b> 23/21/16
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.075	0.089	0.085



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number

: RP0042846 : 06238301 Unique Number : 11127135

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

Diagnosed : 19 Jul 2024 - Jonathan Hester Test Package: IND 2 (Additional Tests: FT-IR, KV100, PrtCount, VI)

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.

nicholas.lesage@clmt.com T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Report Id: CALSHR [WUSCAR] 06238301 (Generated: 07/21/2024 12:51:43) Rev: 1

Submitted By: CODY COMPTON

3333 MIDWAY AVENUE

Contact: NICHOLAS LESAGE

SHREVEPORT, LA

US 71109