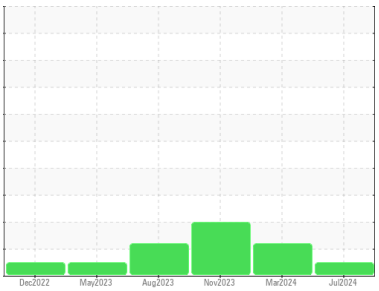
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
PSA
Machine Id
[PSA] TOTE 26 - TURBINE 100
Component
New (Unused) Oil
Fluid
TURBINE OIL ISO 100 (260 GAL)

DIAGNOSIS

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RP0042865**	RP0042878	RP0038973
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				**NORMAL**	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	5	**<1**	0	0
Barium	ppm	ASTM D5185m	5	**<1**	0	2
Molybdenum	ppm	ASTM D5185m	5	**1**	2	<1
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m	5	**4**	0	4
Calcium	ppm	ASTM D5185m	10	**21**	26	11
Phosphorus	ppm	ASTM D5185m	275	**34**	25	53
Zinc	ppm	ASTM D5185m	7	**16**	0	<1

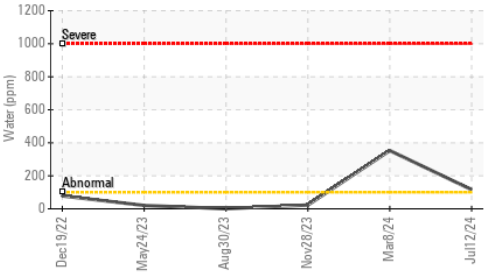
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**1**	2	<1
Sodium	ppm	ASTM D5185m		**2**	0	0
Potassium	ppm	ASTM D5185m	>20	**<1**	0	<1
Water	%	ASTM D6304		**0.011**	0.035	0.002
ppm Water	ppm	ASTM D6304		**116**	353	23

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**2473**	● 9265	▲ 54406
Particles >6µm		ASTM D7647	>1300	**386**	● 2230	▲ 17373
Particles >14µm		ASTM D7647	>160	**21**	35	▲ 692
Particles >21µm		ASTM D7647	>40	**4**	2	▲ 137
Particles >38µm		ASTM D7647	>10	**1**	0	5
Particles >71µm		ASTM D7647	>3	**0**	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**18/16/12**	● 20/18/12	▲ 23/21/17

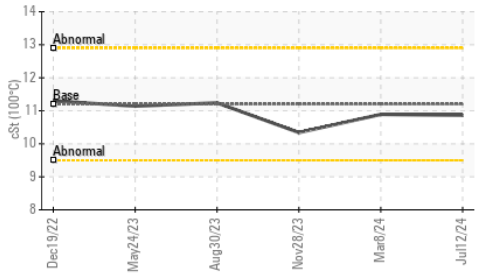
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.13	**0.137**	0.083	0.10

OIL ANALYSIS REPORT

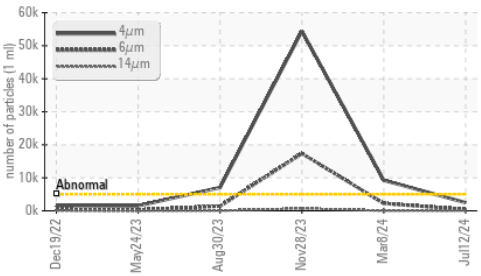
Water (KF)



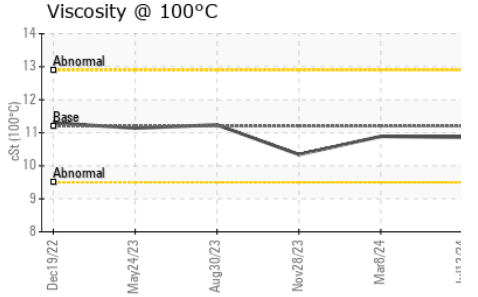
Viscosity @ 100°C



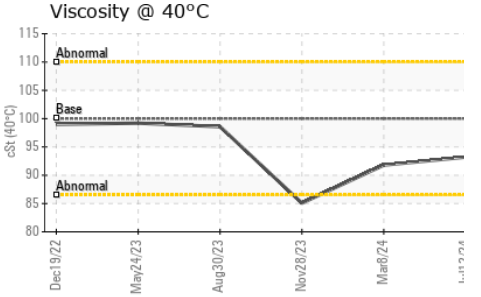
Particle Trend



Viscosity @ 100°C



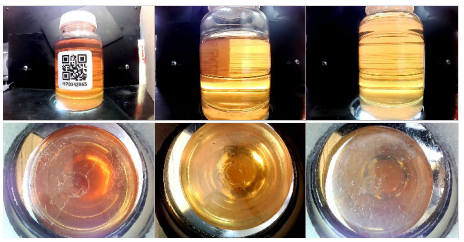
Viscosity @ 40°C



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

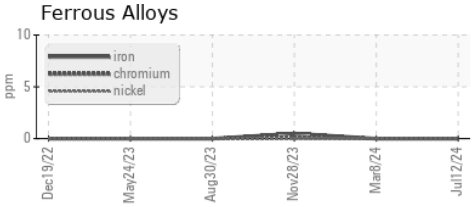
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100	**93.2**	91.78	85.07
Visc @ 100°C	cSt	ASTM D445	11.2	**10.86**	10.89	10.34
Viscosity Index (VI)	Scale	ASTM D2270	97	**100**	102	103

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



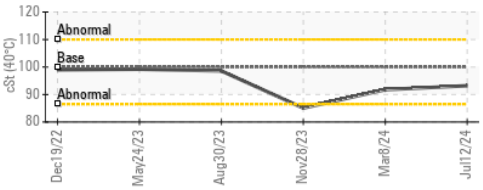
GRAPHS

Ferrous Alloys

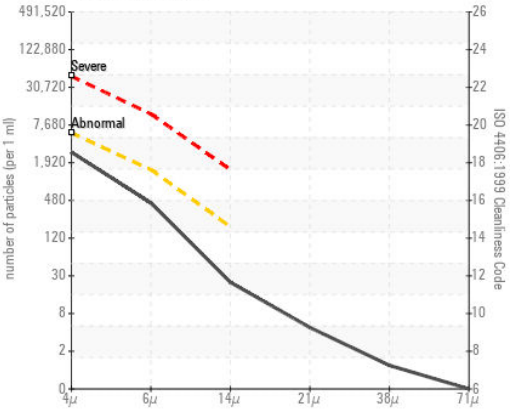


Non-ferrous Metals

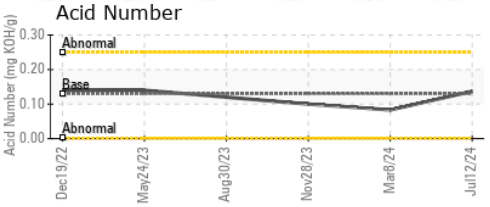
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0042865 **Received** : 16 Jul 2024
Lab Number : 06238310 **Tested** : 19 Jul 2024
Unique Number : 11127144 **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.
** - 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)

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Report Id: CALSHR [WUSCAR] 06238310 (Generated: 07/21/2024 12:53:07) Rev: 1

Submitted By: CODY COMPTON