

# **OIL ANALYSIS REPORT**

## Area MEK Machine Id [MEK] TOTE 15 - TURBINE 100

New (Unused) Oil

Fluid TURBINE OIL ISO 100 (330 GAL)

### DIAGNOSIS

#### A Recommendation

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

#### Contamination

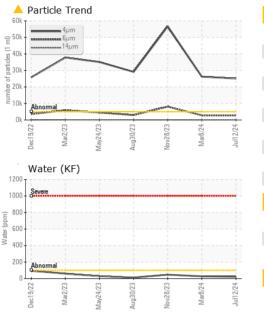
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

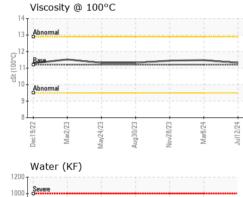
		Deczozz	Marzuza Mayzuza	Aug2023 Nov2023 Mar2024	Jul2024	
SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0042845	RP0042872	RP0038951
Sample Date		Client Info		12 Jul 2024	08 Mar 2024	28 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	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	5	0	0	0
Barium	ppm	ASTM D5185m	5	<1	0	2
Molybdenum	ppm	ASTM D5185m	5	0	0	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	5	2	0	1
Calcium	ppm	ASTM D5185m	10	12	<1	11
Phosphorus	ppm	ASTM D5185m	275	24	9	33
Zinc	ppm	ASTM D5185m	7	7	0	0
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	0
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304		0.002	0.003	0.004
ppm Water	ppm	ASTM D6304		23	27	47
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>A</b> 25074	▲ 26272	▲ 56659
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>A</b> 2789	<b>A</b> 8101
Particles >14µm		ASTM D7647	>160	50	15	62
Particles >21µm		ASTM D7647	>40	14	1	6
Particles >38µm		ASTM D7647	>10	2	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 22/19/13	<b>2</b> 2/19/11	▲ 23/20/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.13	0.18	0.18	0.15

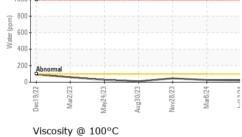
Sample Rating Trend

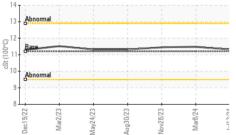


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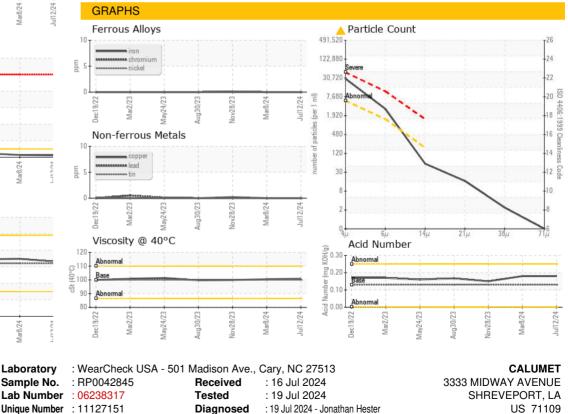








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	100	100.8	100.5	99.9
Visc @ 100°C	cSt	ASTM D445	11.2	11.32	11.48	11.45
Viscosity Index (VI)	Scale	ASTM D2270	97	98	101	101
SAMPLE IMAGES		method	limit/base	current	history1	history2



60 



\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Color

Bottom

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

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