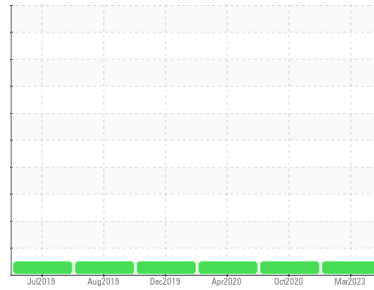




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
165XX096
 Component
Reservoir Turbine
 Fluid
MOBIL DTE 732 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		RP0000829	RP00008498	RP0003860
Sample Date	Client Info		31 Mar 2023	15 Oct 2020	20 Apr 2020
Machine Age	yrs	Client Info	0	0	0
Oil Age	yrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >15	4	1	<1
Chromium	ppm	ASTM D5185m >4	0	0	0
Nickel	ppm	ASTM D5185m >2	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	0	0	0
Lead	ppm	ASTM D5185m	0	0	0
Copper	ppm	ASTM D5185m >5	<1	<1	1
Tin	ppm	ASTM D5185m >5	<1	0	0
Antimony	ppm	ASTM D5185m	---	0	<1
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	<1	<1
Barium	ppm	ASTM D5185m	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	0	0	0
Magnesium	ppm	ASTM D5185m	<1	<1	0
Calcium	ppm	ASTM D5185m	3	15	28
Phosphorus	ppm	ASTM D5185m	16	31	25
Zinc	ppm	ASTM D5185m	12	17	16

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	0	<1
Sodium	ppm	ASTM D5185m	0	1	0
Potassium	ppm	ASTM D5185m >20	<1	0	0
Water	%	ASTM D6304 >0.03	0.003	0.002	0.002
ppm Water	ppm	ASTM D6304 >300	37.8	15.1	20

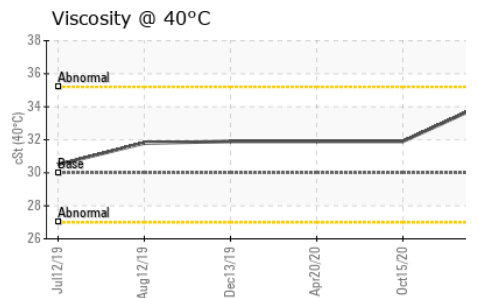
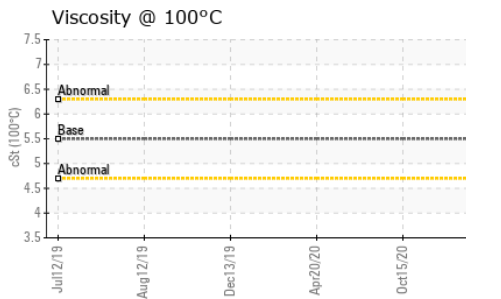
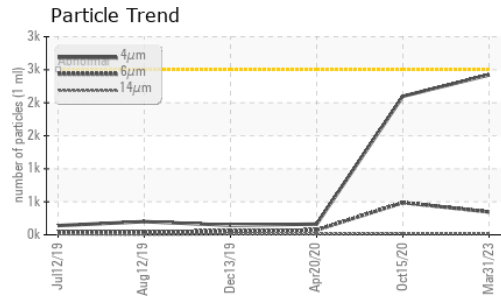
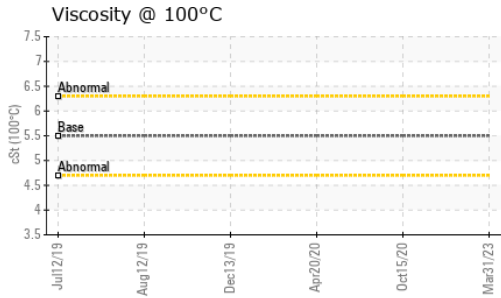
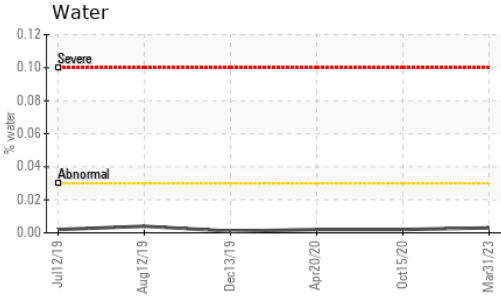
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	2421	2098	163
Particles >6µm	ASTM D7647	>640	346	488	73
Particles >14µm	ASTM D7647	>80	17	17	10
Particles >21µm	ASTM D7647	>20	2	3	4
Particles >38µm	ASTM D7647	>4	0	0	1
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	18/16/11	18/16/11	15/13/10

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.10	0.04	0.049	0.061

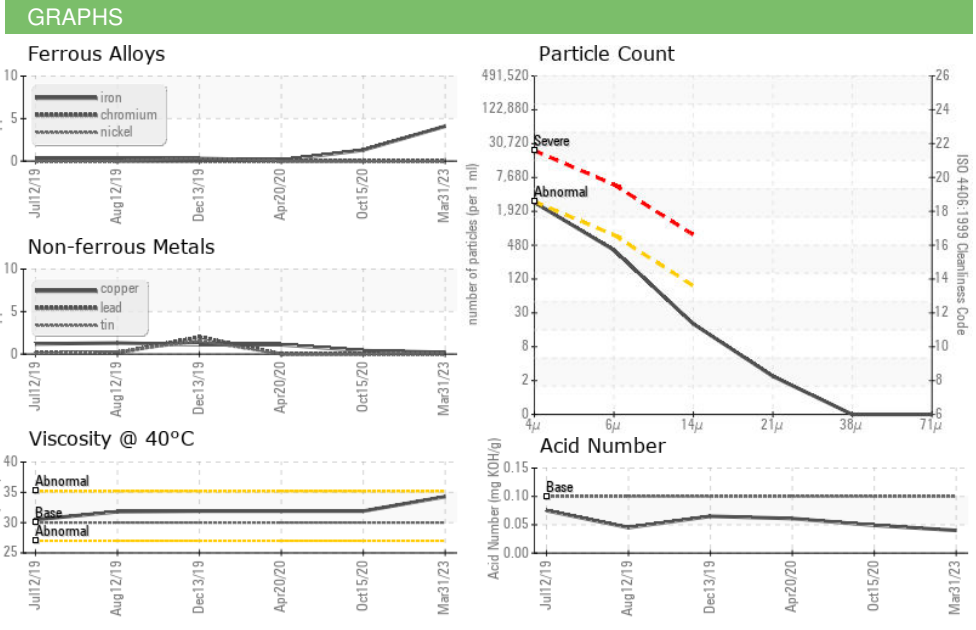
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.03	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	30.0	34.29	31.9
Visc @ 100°C	cSt	ASTM D445	5.5	6.46	---
Viscosity Index (VI)	Scale	ASTM D2270	117	143	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					
MPC			no image	no image	no image



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0000829 **Received** : 19 Apr 2023
Lab Number : 05824353 **Diagnosed** : 21 Apr 2023
Unique Number : 10432436 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KV100, PrtCount, VI)

INTERNATIONAL PAPER
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 US 28586
 Contact: DOUG WEIR
 Doug.Weir@paper.com;jon.fazenbaker@wearcheck.com
 T: (252)633-7350
 F: (252)633-7761

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)