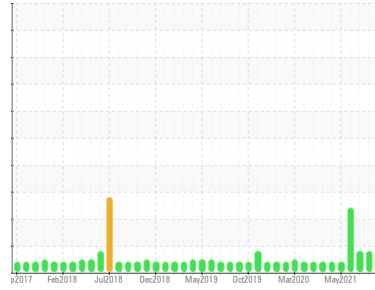


Machine Id  
**SHEETER 7151**  
 Component  
**Gearbox**  
 Fluid  
**GEAR OIL ISO 220 (--- GAL)**



## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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

### 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			<b>PTK0000295</b>	PTK0000353	PTK0001315
Sample Date	Client Info			<b>09 Nov 2023</b>	13 Jun 2023	23 Nov 2022
Machine Age	wks	Client Info		<b>0</b>	0	0
Oil Age	wks	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>ATTENTION</b>	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	<b>NEG</b>	NEG	NEG

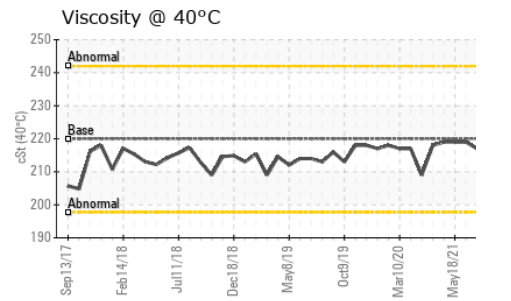
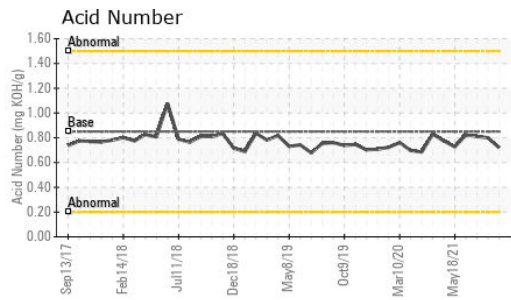
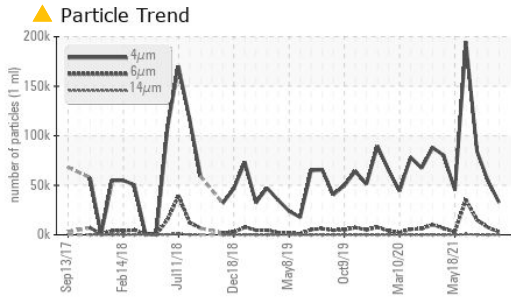
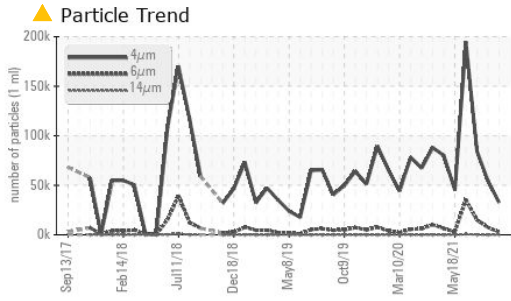
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>5</b>	11	10
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>200	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185m	>5	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	<b>25</b>	34	35
Barium	ppm	ASTM D5185m	15	<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m	15	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	50	<b>0</b>	1	4
Calcium	ppm	ASTM D5185m	50	<b>1</b>	5	8
Phosphorus	ppm	ASTM D5185m	350	<b>323</b>	320	347
Zinc	ppm	ASTM D5185m	100	<b>2</b>	4	5
Sulfur	ppm	ASTM D5185m	12500	<b>16704</b>	19132	19879

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>4</b>	5	6
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>32658</b>	54330	84471
Particles >6µm		ASTM D7647	>2500	<b>▲ 2668</b>	▲ 7488	▲ 14997
Particles >14µm		ASTM D7647	>320	<b>37</b>	133	258
Particles >21µm		ASTM D7647	>80	<b>9</b>	28	47
Particles >38µm		ASTM D7647	>20	<b>1</b>	1	1
Particles >71µm		ASTM D7647	>4	<b>1</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15	<b>▲ 19/12</b>	▲ 20/14	▲ 21/15

# OIL ANALYSIS REPORT

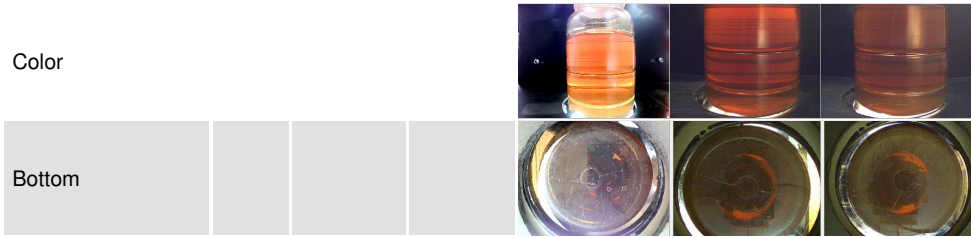


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	<b>0.72</b>	0.80	0.81

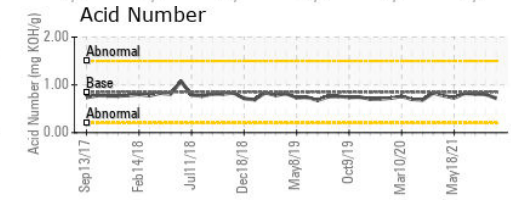
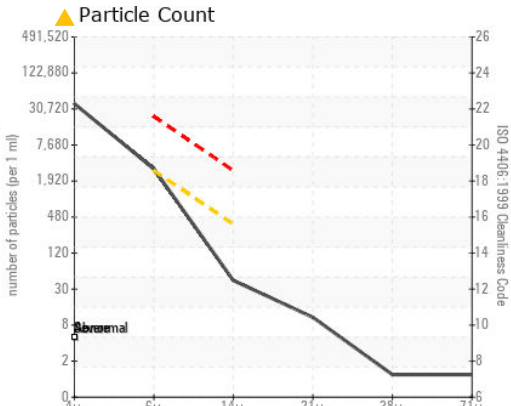
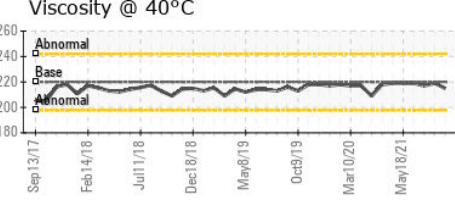
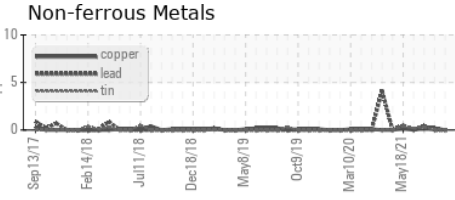
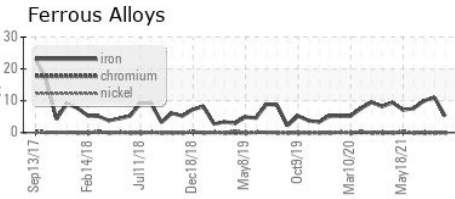
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	<b>215</b>	219	217

SAMPLE IMAGES		method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PTK0000295 **Received** : 24 Nov 2023  
**Lab Number** : **06017325** **Diagnosed** : 28 Nov 2023  
**Unique Number** : 10756469 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: PrtCount )

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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 US 60017  
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 T: (847)437-1700  
 F: