



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**RIG 258**  
Machine Id  
**R258-MP-01**  
Component  
**Gearbox**  
Fluid  
**GEAR OIL ISO 320 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL ISO 320. Please confirm.  
Please specify the component make and model with your next sample.

## WEAR

All component wear rates are normal.

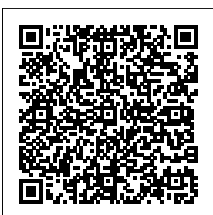
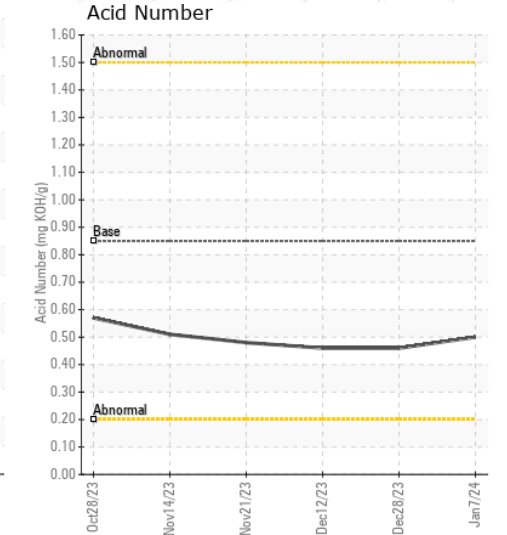
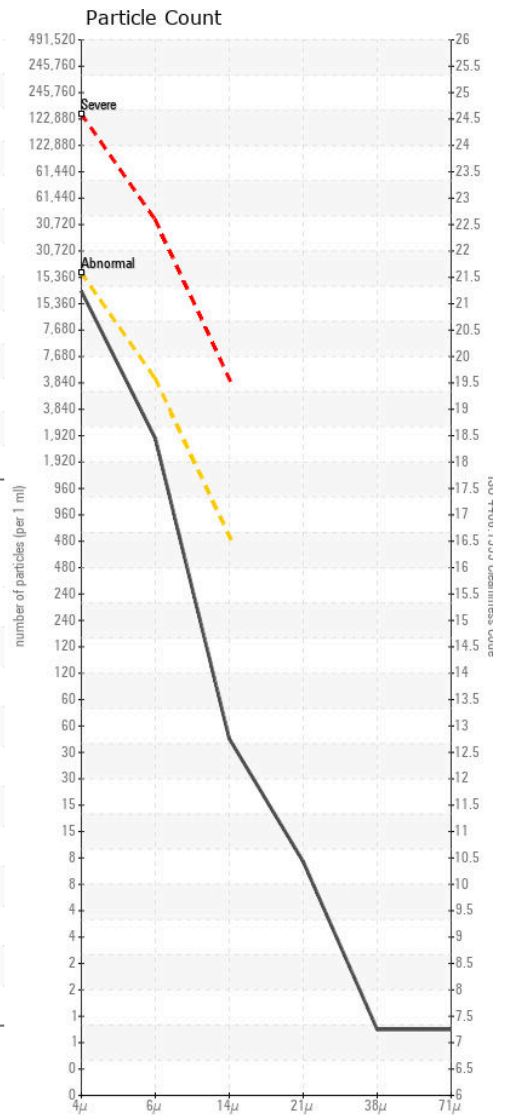
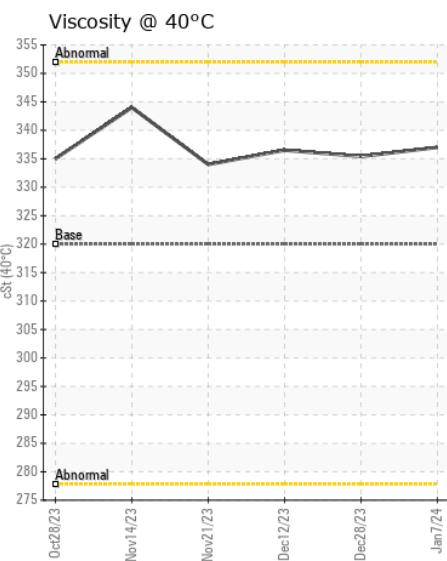
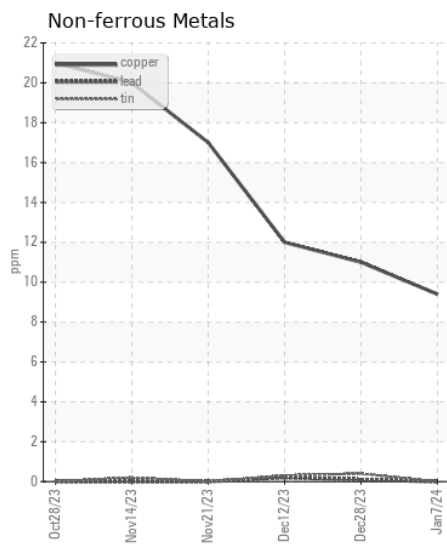
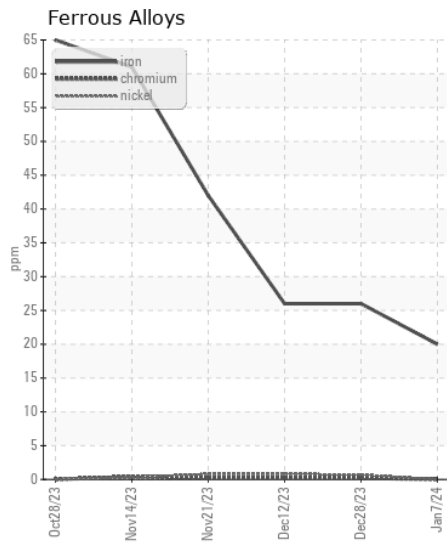
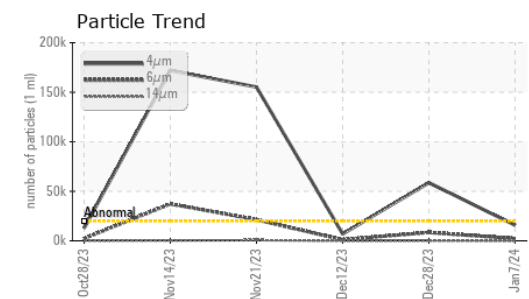
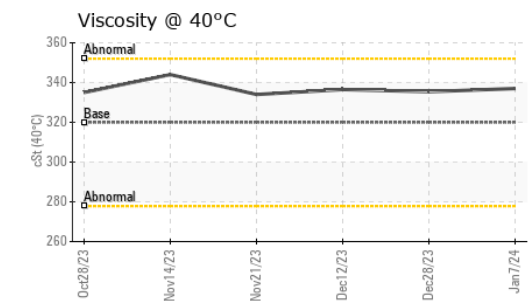
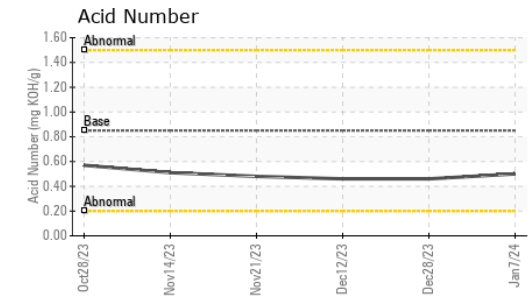
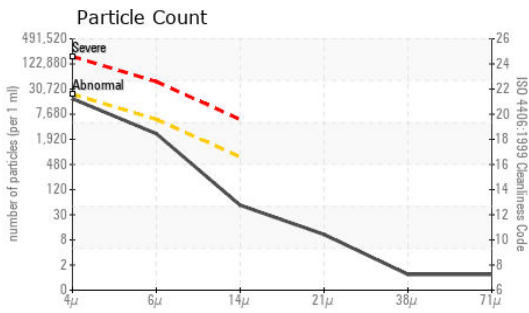
## CONTAMINATION

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

## FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>KL0013950</b>	KL0013944	KL0013947
Sample Date		Client Info		<b>07 Jan 2024</b>	28 Dec 2023	12 Dec 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>200	<b>20</b>	26	26
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	1	1
Lead	ppm	ASTM D5185m	>50	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>200	<b>9</b>	11	12
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	<b>5</b>	6	6
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>15735</b>	▲ 58702	6907
Particles >6µm		ASTM D7647	>5000	<b>2293</b>	▲ 8462	1080
Particles >14µm		ASTM D7647	>640	<b>45</b>	204	44
Particles >21µm		ASTM D7647	>160	<b>9</b>	38	8
Particles >38µm		ASTM D7647	>40	<b>1</b>	1	1
Particles >71µm		ASTM D7647	>10	<b>1</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>21/18/13</b>	▲ 23/20/15	20/17/13
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</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
Sodium	ppm	ASTM D5185m		<b>12</b>	17	12
Boron	ppm	ASTM D5185m	50	<b>5</b>	4	4
Barium	ppm	ASTM D5185m	15	<b>0</b>	5	4
Molybdenum	ppm	ASTM D5185m	15	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	50	<b>&lt;1</b>	2	3
Calcium	ppm	ASTM D5185m	50	<b>19</b>	25	24
Phosphorus	ppm	ASTM D5185m	350	<b>168</b>	170	170
Zinc	ppm	ASTM D5185m	100	<b>6</b>	9	10
Sulfur	ppm	ASTM D5185m	12500	<b>8460</b>	8977	8880
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	<b>0.50</b>	0.46	0.46
Visc @ 40°C	cSt	ASTM D445	320	<b>337</b>	335.4	336.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0013950 **Received** : 10 Jan 2024  
**Lab Number** : 06056638 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10822587 **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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