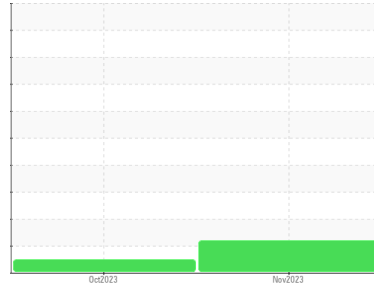




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
RIG 258
 Machine Id
R258-MP-01
 Component
Gearbox
 Fluid
EP 320 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please note that this is a corrected copy for diagnostic comment updates.

Wear

All component wear rates are normal.

Contamination

There is a high 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	KL0013027	KL0012968	---
Sample Date	Client Info	14 Nov 2023	28 Oct 2023	---
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	---
Sample Status		ABNORMAL	NORMAL	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	61	65
Chromium	ppm	ASTM D5185m	>10	<1	0
Nickel	ppm	ASTM D5185m	>10	<1	0
Titanium	ppm	ASTM D5185m		<1	0
Silver	ppm	ASTM D5185m		0	0
Aluminum	ppm	ASTM D5185m	>25	2	2
Lead	ppm	ASTM D5185m	>50	0	0
Copper	ppm	ASTM D5185m	>200	20	21
Tin	ppm	ASTM D5185m	>10	<1	0
Vanadium	ppm	ASTM D5185m		<1	0
Cadmium	ppm	ASTM D5185m		0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		8	10
Barium	ppm	ASTM D5185m		0	9
Molybdenum	ppm	ASTM D5185m		0	0
Manganese	ppm	ASTM D5185m		<1	0
Magnesium	ppm	ASTM D5185m		0	<1
Calcium	ppm	ASTM D5185m		27	29
Phosphorus	ppm	ASTM D5185m		139	144
Zinc	ppm	ASTM D5185m		24	29
Sulfur	ppm	ASTM D5185m		7656	6992

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	16	20
Sodium	ppm	ASTM D5185m		40	41
Potassium	ppm	ASTM D5185m	>20	1	0

FLUID CLEANLINESS

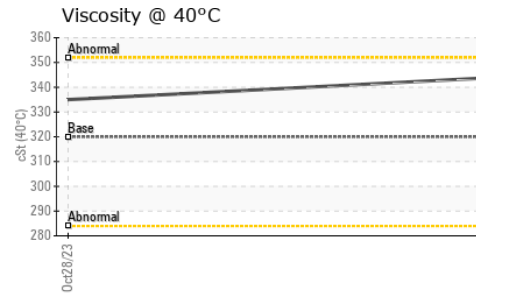
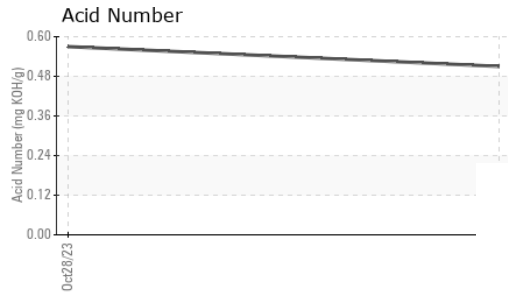
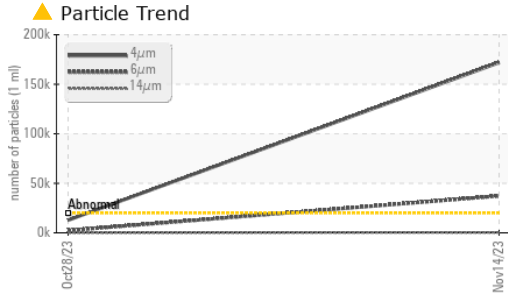
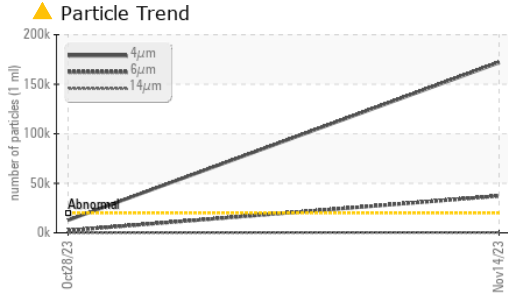
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 171958	12760
Particles >6µm	ASTM D7647	>5000	▲ 37248	2390
Particles >14µm	ASTM D7647	>640	297	88
Particles >21µm	ASTM D7647	>160	36	19
Particles >38µm	ASTM D7647	>40	0	0
Particles >71µm	ASTM D7647	>10	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 25/22/15	21/18/14

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.51	0.57



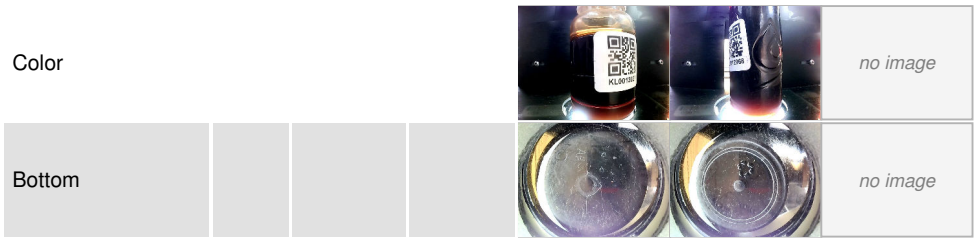
OIL ANALYSIS REPORT



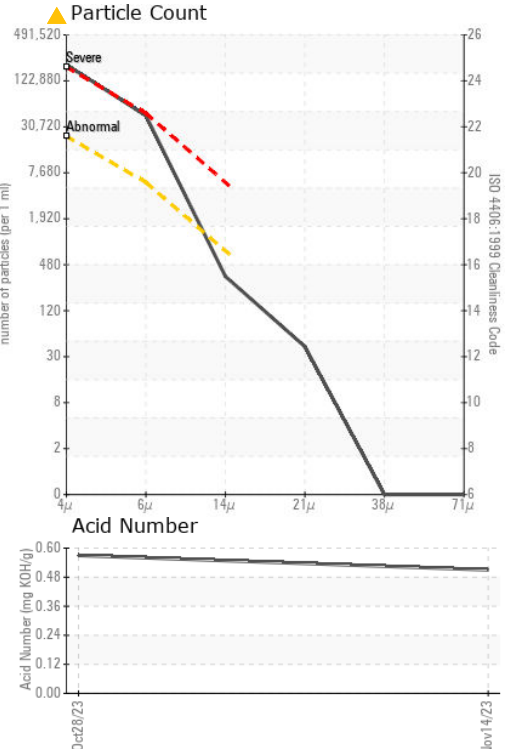
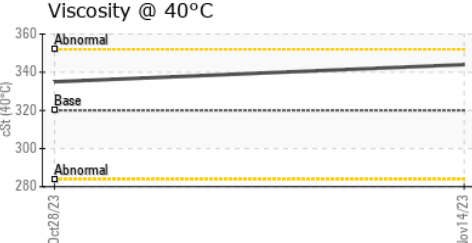
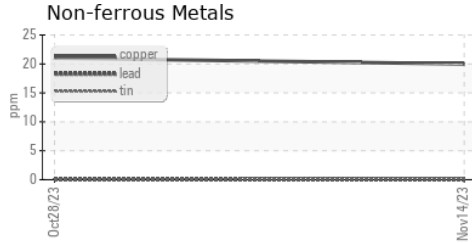
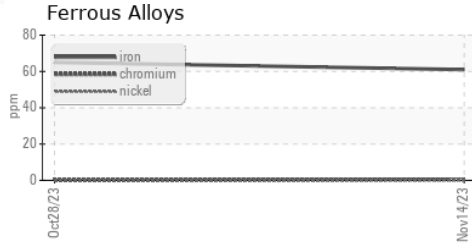
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	344	335

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : KL0013027 Received : 20 Nov 2023
 Lab Number : 06012382 Diagnosed : 30 Nov 2023
 Unique Number : 10751526 Diagnostician : Doug Bogart
 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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