

OIL ANALYSIS REPORT

SAMPLE INFORMATION

Sample Rating Trend

limit/base

method



history1

current

history2

Area **RIG 816** Machine Id **R816-MP-02** Component

Gearbox Fluid GEAR OIL ISO 320 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Appearance is unacceptable. There is a moderate concentration of water present in the oil. The high sodium (Na) level indicates the possible presence of salt water.

Fluid Condition

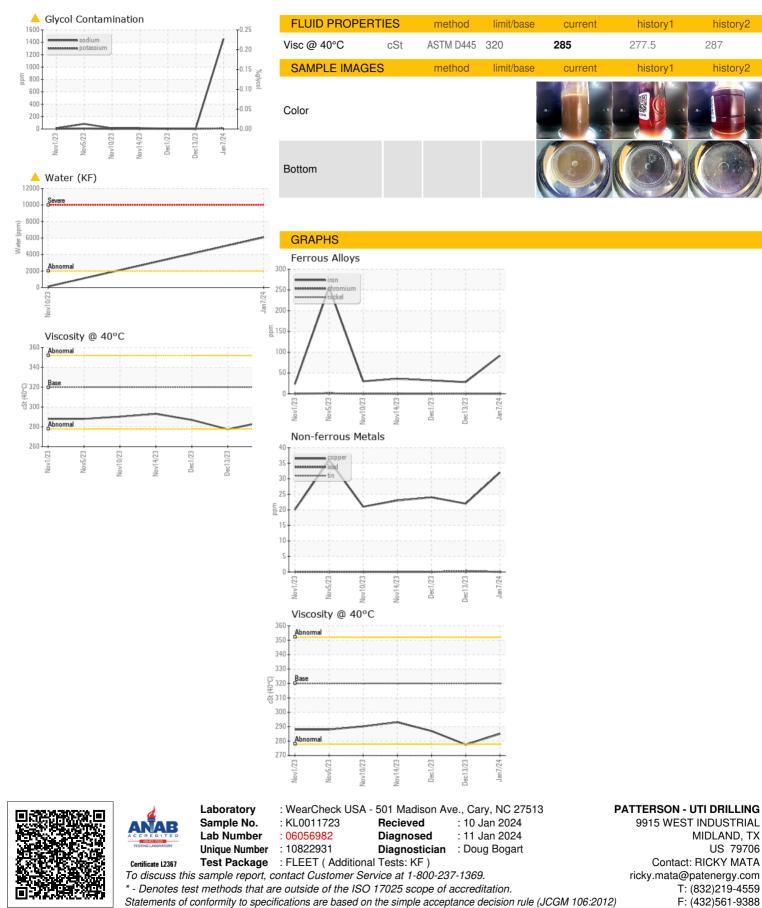
The oil is no longer serviceable due to the presence of contaminants.

		method	iiiiii/base	Guirent	Thistory	Thistory2
Sample Number		Client Info		KL0011723	KL0013946	KL0013156
Sample Date		Client Info		07 Jan 2024	13 Dec 2023	01 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	92	28	32
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	1	1
Lead	ppm	ASTM D5185m	>50	0	<1	0
Copper	ppm	ASTM D5185m	>200	32	22	24
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	4	<1	<1
Barium	ppm	ASTM D5185m	15	0	2	0
Molybdenum	ppm	ASTM D5185m	15	0	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	50	8	4	1
Calcium	ppm	ASTM D5185m	50	75	24	24
Phosphorus	ppm	ASTM D5185m	350	194	160	133
Zinc	ppm	ASTM D5185m	100	31	34	33
Sulfur	ppm	ASTM D5185m	12500	8900	8462	8565
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	32	11	12
Sodium	ppm	ASTM D5185m		<u> </u>	5	6
Potassium	ppm	ASTM D5185m	>20	11	1	2
Water	%	ASTM D6304	>0.2	<u> </u>		
ppm Water	ppm	ASTM D6304	>2000	▲ 6080		
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	>0.2	0.2%	NEG	NEG
Free Water	scalar	*Visual			NEG	NEG

Contact/Location: RICKY MATA - PATMIDTX



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MIDLAND, TX

US 79706

history2

history2

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