

RIG 879 Machine Id R879-MP-01 Component

Gearbox

BRENNTAG COASTAL CHEMICAL HBC GEAR OIL 320 (--- GAL)

RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.



All component wear rates are normal.

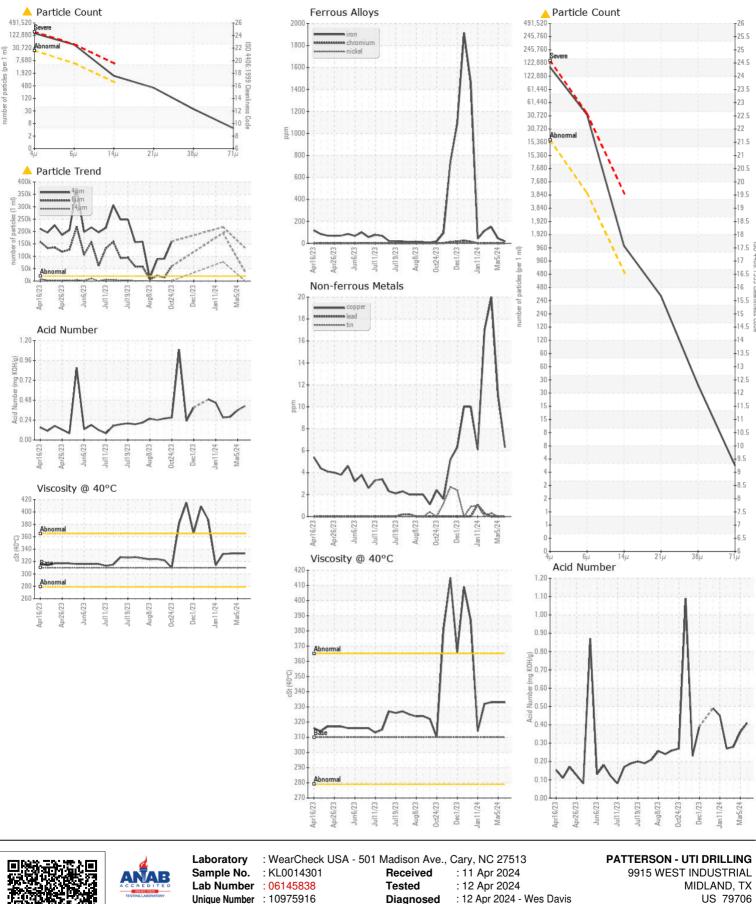
CONTAMINATION

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Numb	er	Client Info		KL0014301	KL0013733	KL0013943
Sample Date		Client Info		03 Apr 2024	05 Mar 2024	06 Feb 2024
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	0
Filter Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Change	ed	Client Info		N/A	N/A	N/A
Sample Statu	IS			ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>200	17	44	150
Chromium	ppm	ASTM D5185m	>10	0	0	1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	3
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	11	55
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>200	6	11	20
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Cilicon			. 50	15	44	205
Silicon Potassium	ppm	ASTM D5185m	>50 >20	15	2	205
	ppm	ASTM D5185m WC Method		<1 NEG	NEG	NEG
Water	-	ASTM D7647	>0.2 >20000		neg	NEG
Particles >4µ		ASTM D7647 ASTM D7647	>20000	134132 38915		
Particles >6µ Particles >14µ		ASTM D7647 ASTM D7647	>640	1252		
Particles >14µ Particles >21µ		ASTM D7647 ASTM D7647	>040	▲ 337		
Particles >38µ		ASTM D7647 ASTM D7647		33		
Particles >30µ Particles >71µ		ASTM D7647 ASTM D7647	>10	4		
Oil Cleanline:		ISO 4406 (c)		4 24/22/17		
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	A MODEF
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Wat		*Visual	>0.2	NEG	NEG	NEG
	orocala	violat	20.L			NLO.
Sodium	ppm	ASTM D5185m		5	17	44
Boron	ppm	ASTM D5185m		<1	1	2
Barium	ppm	ASTM D5185m		6	46	287
Molybdenum	ppm	ASTM D5185m		0	<1	2
	ppm	ASTM D5185m		<1	<1	2
Manganese	nnm	ASTM D5185m		<1	0	12
Manganese Magnesium	ppm			20	35	207
-	ppm	ASTM D5185m		32	55	
Magnesium		ASTM D5185m ASTM D5185m		32 113	84	138
Magnesium Calcium	ppm					
Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m		113	84	138
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m		113 39	84 30	138 51

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



Certificate L2367 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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