

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

RIG 244

R244-MP-03 Component Gearbox

{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

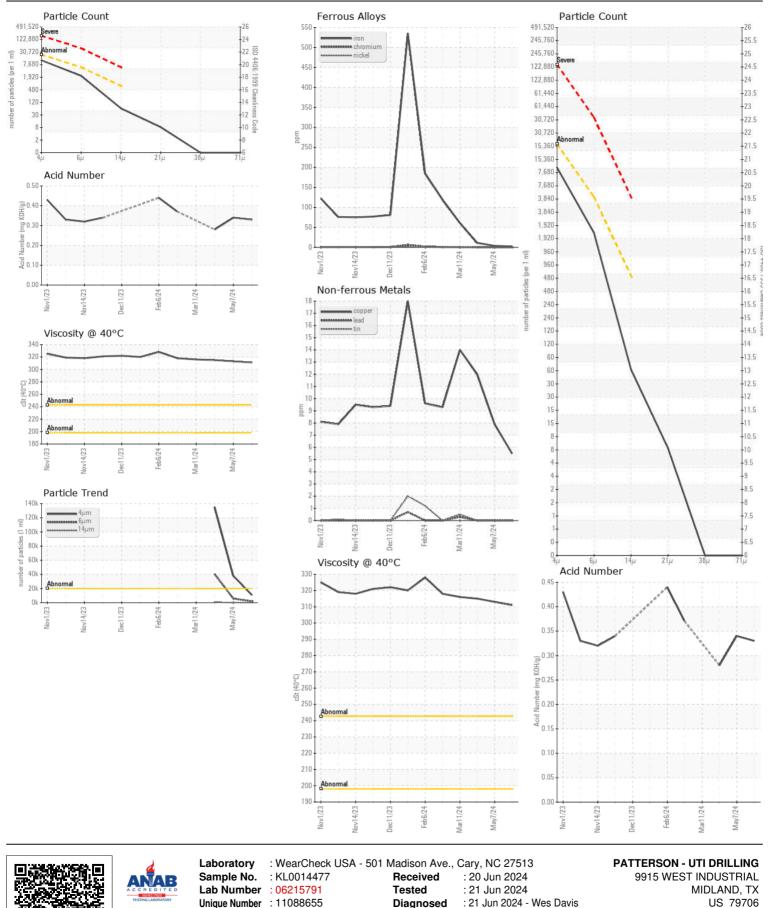
CONTAMINATION

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		KL0014477	KL0014286	KL0014299
Sample Date		Client Info		10 Jun 2024	07 May 2024	03 Apr 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	SEVERE
Iron		ASTM D5185m	>200	2	4	11
Chromium	ppm ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	۰ <1	0	0
Titanium	ppm	ASTM D5185m	210	0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	0
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>200	6	8	12
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	10	9	8
Potassium	ppm	ASTM D5185m	>20	4	<1	0
Water		WC Method	>0.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	10783	37844	▲ 134925
Particles >6µm		ASTM D7647	>5000	1953	5711	40294
Particles >14µm		ASTM D7647	>640	55	122	610
Particles >21µm		ASTM D7647	>160	7	20	106
Particles >38µm		ASTM D7647	>40 >10	0	0	2
Particles >71µm Oil Cleanliness		ASTM D7647		0 21/18/13	22/20/14	0 ▲ 24/23/16
Silt	scalar	ISO 4406 (c) *Visual	>21/19/16 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		*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		3	3	2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	<1	2
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		2	0	1
Calcium	ppm	ASTM D5185m		16	11	7
Phosphorus	ppm	ASTM D5185m		110	107	118
Zinc	ppm	ASTM D5185m		17	12	0
Sulfur	ppm	ASTM D5185m		11740	10566	10964
Acid Number (AN)	mg KOH/g	ASTM D8045		0.33	0.34	0.28
Visc @ 40°C	cSt	ASTM D445		311	313	315



Unique Number : 11088655 : 21 Jun 2024 - Wes Davis Diagnosed Test Package : MOB 2 (Additional Tests: PrtCount) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ricky.mata@patenergy.com * - 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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