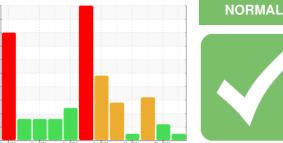


OIL ANALYSIS REPORT

Sample Rating Trend



Area RIG 244 R244-MP-03 Gearbox Fluid {not provided} (--- GAL)

DIAGNOSIS

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.

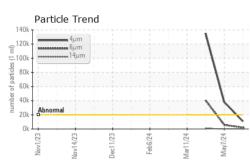
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0014477	KL0014286	KL0014299
Sample Date		Client Info		10 Jun 2024	07 May 2024	03 Apr 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	SEVERE
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	2	4	11
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		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
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	I- I-	method	limit/base	-	history1	history2
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
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	10	9	8
Sodium	ppm	ASTM D5185m		3	3	2
Potassium	ppm	ASTM D5185m	>20	4	<1	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
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	0	0	2
Deutleten 74		ASTM D7647	>10	0	0	0
Particles >71µm						
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/18/13	22/20/14	4 /23/16
		ISO 4406 (c) method	>21/19/16 limit/base		22/20/14 history1	▲ 24/23/16 history2
Oil Cleanliness	TION mg KOH/g	()				

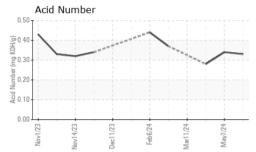
Report Id: PATMIDTX [WUSCAR] 06215791 (Generated: 06/21/2024 15

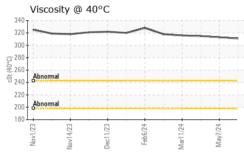
Page 1 of 2

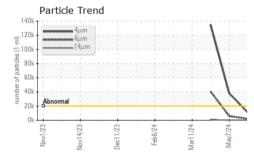


OIL ANALYSIS REPORT

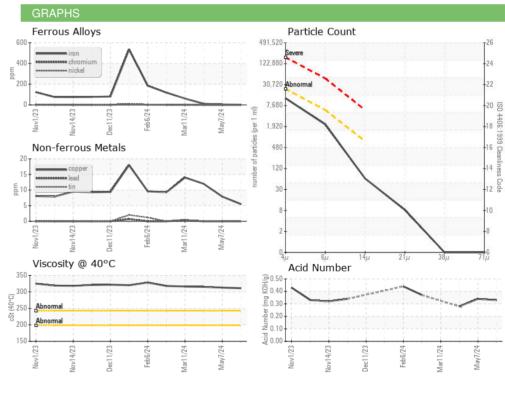


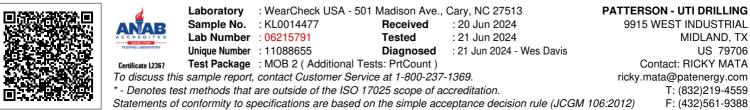






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		311	313	315
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom						





Report Id: PATMIDTX [WUSCAR] 06215791 (Generated: 06/21/2024 15:35:59) Rev: 1

Submitted By: Mike Richardson

Page 2 of 2