

OIL ANALYSIS REPORT





TM 8 FORMING ROLL GRBX

Gearbox

ROYAL PURPLE SYNFILM GT220 (--- GAL)





DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample at the next service interval to monitor.

Wear

An increase in the iron level is noted. All other component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0037987	RP05256020	RP201122
Sample Date		Client Info		30 Apr 2024	16 May 2021	25 May 2020
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	155	59	30
Chromium	ppm	ASTM D5185m	>15	<1	0	0
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	1	<1	<1
Tin	ppm	ASTM D5185m	>25	<1	<1	0
Antimony	ppm	ASTM D5185m	>5		2	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		mathad	limit/base	o urront	hiotom/1	hiotom ()
		method	imilibase	current	history1	history2
Boron	ppm	ASTM D5185m		22	10	3
Barium	ppm	ASTM D5185m		4	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m	90	2	<1	<1
Calcium	ppm	ASTM D5185m		8	17	16
Phosphorus	ppm	ASTM D5185m		441	194	158
Zinc	ppm	ASTM D5185m		21	20	2
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	2	5
Sodium	ppm	ASTM D5185m		1	6	4
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304		0.027	0.172	0.039
ppm Water	ppm	ASTM D6304	>2000	277	1720	390
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u>256471</u>		8691
Particles >6µm		ASTM D7647	>5000	<u> </u>		1168
Particles >14μm		ASTM D7647	>640	2653		75
Particles >21µm		ASTM D7647	>160	187		24
Particles >38μm		ASTM D7647	>40	2		9
Particles >71μm		ASTM D7647	>10	0		5
Oil Cleanliness		ISO 4406 (c)	>21/19/16	25/24/19		20/17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	1.62	0.397	0.371



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Certificate 12367

Laboratory Sample No. Lab Number

: RP0037987 : 06179422 Unique Number : 11030748

Diagnosed Test Package : IND 2 (Additional Tests: PrtCount)

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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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: 14 May 2024

: 16 May 2024

: 16 May 2024 - Angela Borella

Received

Tested

Contact/Location: LARRY WEAVER - KIMMOBTM8