

OIL ANALYSIS REPORT

VISCOSITY

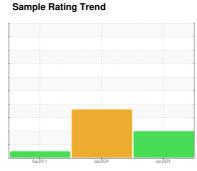


TM 11 AIR SIDE MACHINE CHEST

Component

Gearbox

ROYAL PURPLE SYNERGY 90/220 (--- GAL)





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

▲ Fluid Condition

The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

.)		Sq	2011	Jan2024 Jan2	024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0037974	RP0038096	RP115061
Sample Date		Client Info		30 Jan 2024	29 Jan 2024	23 Sep 2011
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				ATTENTION	SEVERE	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		14	38	
Iron	ppm	ASTM D5185m	>200	74	98	2
Chromium	ppm	ASTM D5185m	>15	<1	<1	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	2	<1
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	<1	<1	0
Antimony	ppm	ASTM D5185m	>5			1316
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ррпп		11. 11.0			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	37	<1
Barium	ppm	ASTM D5185m		20	0	1
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		2	<1	0
Magnesium	ppm	ASTM D5185m		A 34	0	4
Calcium	ppm	ASTM D5185m		25	2	4
Phosphorus	ppm	ASTM D5185m	370	270	357	235
Zinc	ppm	ASTM D5185m		▲ 228	0	10
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	2	<1
Sodium	ppm	ASTM D5185m		4	0	0
Potassium	ppm	ASTM D5185m	>20	0	3	0
Water	%	ASTM D6304	>0.2	0.007	0.015	0.003
ppm Water	ppm	ASTM D6304	>2000	79	158	30
FLUID CLEANLII	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	14709	111914	1205
Particles >6µm		ASTM D7647	>5000	3028	2 4362	656
Particles >14μm		ASTM D7647	>640	117	368	111
Particles >21μm		ASTM D7647	>160	25	56	37
Particles >38μm		ASTM D7647	>40	3	1	5
Particles >71µm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/19/14	2 4/22/16	17/17/14
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
A -1-I NI (ALD		AOTA DOO	1 00	0.40	4.07	4 4 4

Acid Number (AN)



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