

OIL ANALYSIS REPORT

TM 11 TM 11 - 3 SLUSH MAKER REDUCER Component

Gearbox Fluic

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

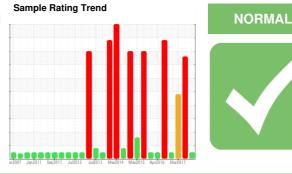
All component wear rates are normal.

Contamination

There is no indication of any contamination in the component. The amount and size of particulates present in the system 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		RP188053	RP185431	RP183347
Sample Date		Client Info		26 Sep 2018	18 Aug 2017	01 Mar 2017
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	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	7	27	🔺 269
Chromium	ppm	ASTM D5185m	>15	0	<1	1
Nickel	ppm	ASTM D5185m	>15	0	<1	1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	<1
Lead	ppm	ASTM D5185m	>100	0	0	1
Copper	ppm	ASTM D5185m	>200	3	2	5
Tin	ppm	ASTM D5185m	>25	0	0	0
Antimony	ppm	ASTM D5185m		6	0	4
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	<1	3
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	3
Magnesium	ppm	ASTM D5185m		1	<1	0
Calcium	ppm	ASTM D5185m		18	18	10
Phosphorus	ppm	ASTM D5185m	370	136	130	70
Zinc	ppm	ASTM D5185m		157	154	5
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	2	4
Sodium	ppm	ASTM D5185m		2	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water	%	ASTM D6304	>0.2	0.006	0.007	2.35
ppm Water	ppm	ASTM D6304	>2000	60	70	23500
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	12030	270184	692
Particles >6µm		ASTM D7647	>5000	2886	83642	377
Particles >14µm		ASTM D7647	>640	263	2152	64
Particles >21µm		ASTM D7647	>160	73	274	21
Particles >38µm		ASTM D7647	>40	2	4 9	3
Particles >71µm		ASTM D7647	>10	0	 7	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/19/15	25/24/18	17/16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.33	0.300	0.339	0.261

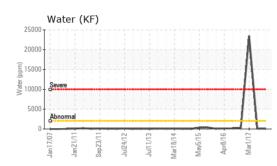


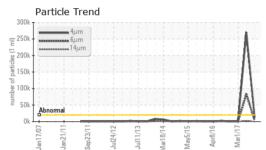
Water (KF)

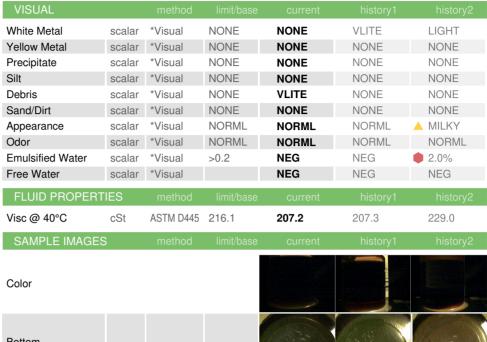
25000

2000

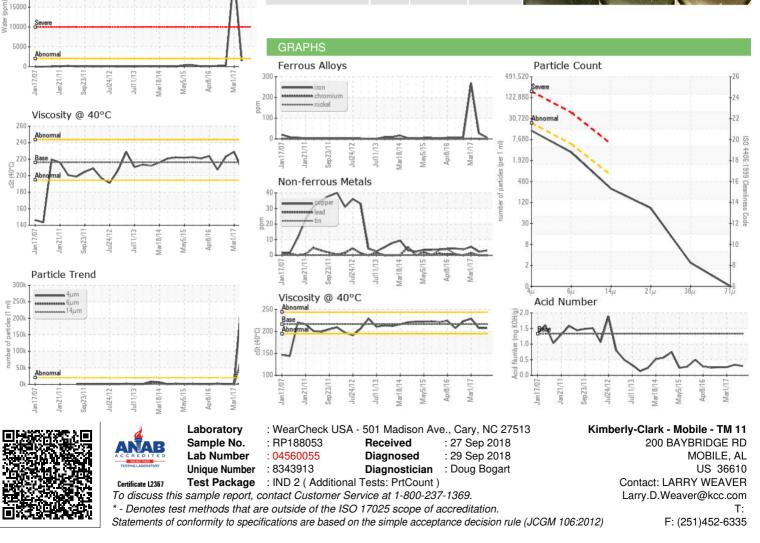
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