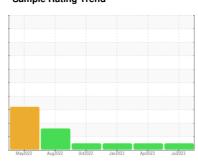


OIL ANALYSIS REPORT

Sample Rating Trend







P-2220
Component

Reservoir Oil

ROYAL PURPLE SYNFILM 32 (--- 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 oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		May2022	Aug ² 022 Oct ² 022	Jan 2023 Apr 2023	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0032229	RP0032272	RP0027101
Sample Date		Client Info		13 Jul 2023	12 Apr 2023	17 Jan 2023
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	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	1	2
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	1	<1	0
Lead	ppm	ASTM D5185m	>20	<1	0	<1
Copper	ppm	ASTM D5185m	>20	19	20	19
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	90	93	82	78
Calcium	ppm	ASTM D5185m		9	13	10
Phosphorus	ppm	ASTM D5185m		37	49	42
Zinc	ppm	ASTM D5185m		54	63	58
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	10	9	14
Sodium	ppm	ASTM D5185m		1	1	<1
Potassium	ppm	ASTM D5185m	>20	1	2	2
Water	%	ASTM D6304		0.020	0.021	0.015
ppm Water	ppm	ASTM D6304		208.1	217.9	152.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	531	2861	689
Particles >6µm		ASTM D7647	>1300	106	630	151
Particles >14µm		ASTM D7647	>160	11	44	13
Particles >21µm		ASTM D7647		5	12	4
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/14/11	19/16/13	17/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	1/011/					

Acid Number (AN)

mg KOH/g ASTM D8045

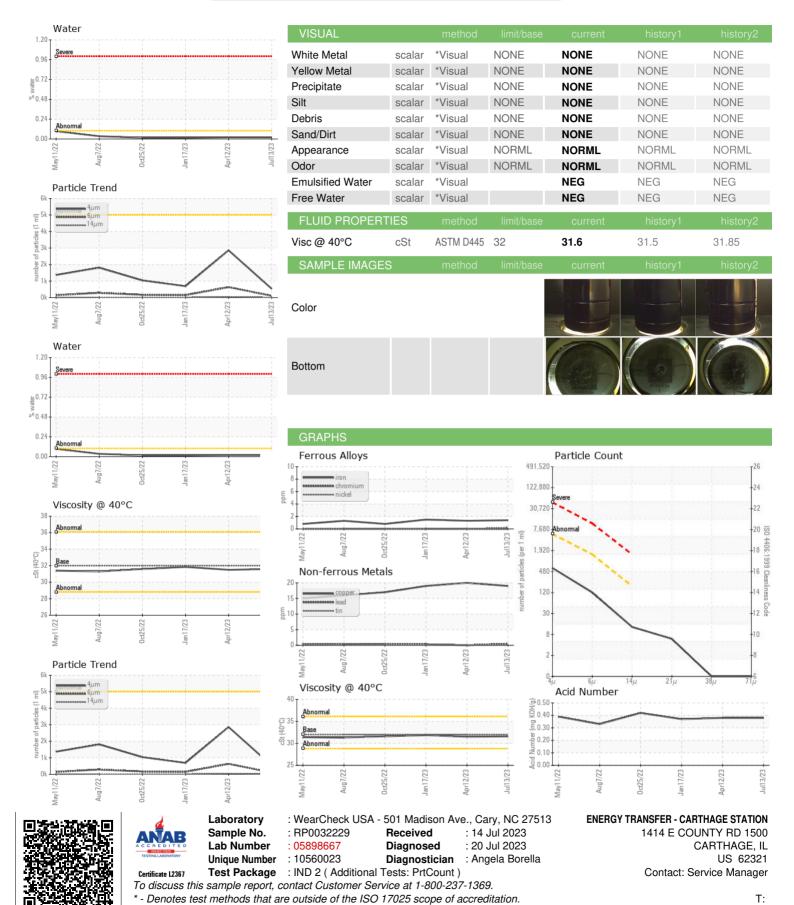
0.38

0.38

0.37



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: