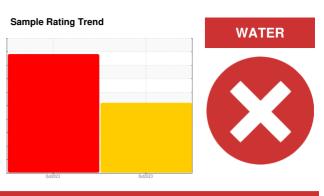


PROBLEM SUMMARY

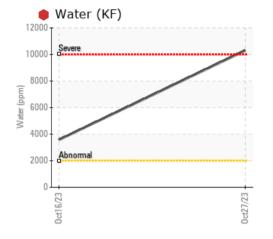


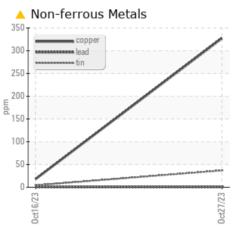
Machine Id DURCO M-800 Component

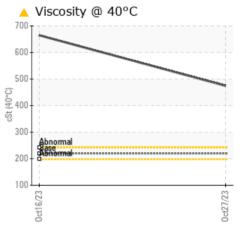
Gearbox Fluid

ROYAL PURPLE SYNFILM GT 220 (--- LTR)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	SEVERE			
Copper	ppm	ASTM D5185m	>200	<u> </u>	18			
Tin	ppm	ASTM D5185m	>25	A 37	4			
Water	%	ASTM D6304	>0.2	e 1.029	▲ 0.356			
ppm Water	ppm	ASTM D6304	>2000	🛑 10293.9	▲ 3569.3			
Visc @ 40°C	cSt	ASTM D445	220	474.5	▲ 665			

Customer Id: PERMARRP Sample No.: RP0038293 Lab Number: 05995695 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Water Access			?	We advise that you check for the source of water entry.		

HISTORICAL DIAGNOSIS



16 Oct 2023 Diag: Jonathan Hester

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Gear wear is indicated. Appearance is milky. There is a moderate concentration of water present in the oil. The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





OIL ANALYSIS REPORT

Sample Rating Trend

WATER

X

DURCO M-800

Component Gearbox Fluid ROYAL PURPLE SYNFILM GT 220 (--- LTR)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

🔺 Wear

Bearing and/or bushing wear is indicated.

Contamination

There is a high concentration of water present in the oil.

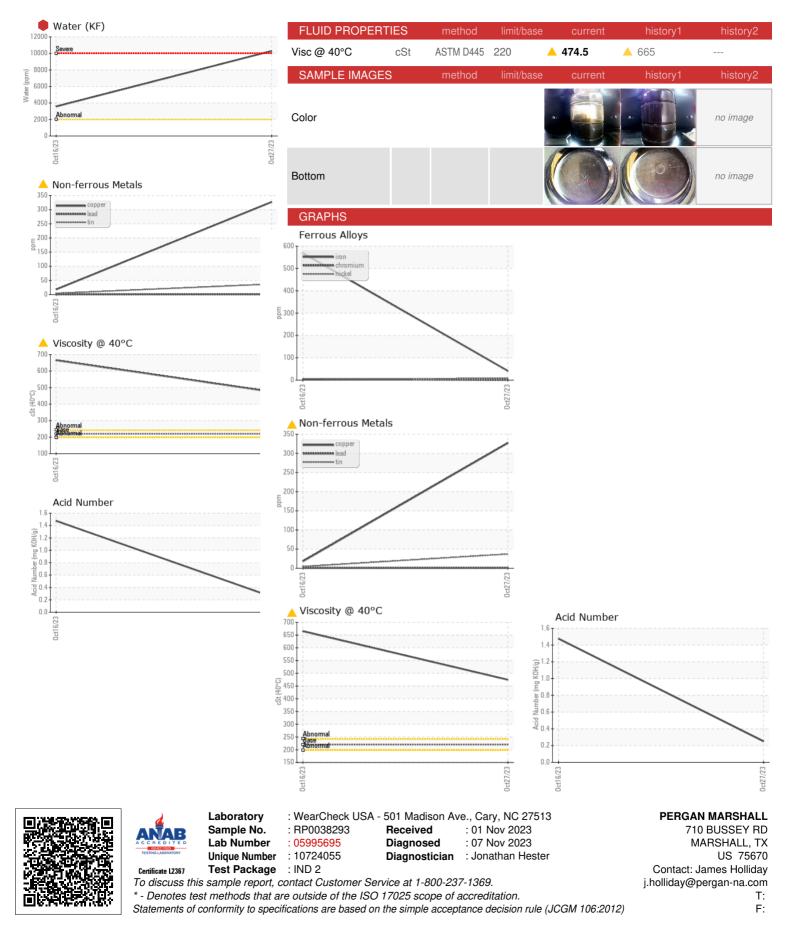
Fluid Condition

Viscosity of sample indicates oil is within ISO 460 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

			0ct2023	0ct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0038293	RP0038279	
Sample Date		Client Info		27 Oct 2023	16 Oct 2023	
Machine Age	mths	Client Info		0	0	
Dil Age	mths	Client Info		0	0	
Dil Changed		Client Info		N/A	N/A	
Sample Status				SEVERE	SEVERE	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>200	41	68	
Chromium	ppm	ASTM D5185m	>15	<1	5	
Nickel	ppm	ASTM D5185m	>15	8	4	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>25	4	1	
_ead	ppm	ASTM D5185m	>100	<1	<1	
Copper	ppm	ASTM D5185m	>200	327	18	
Tin	ppm	ASTM D5185m	>25	A 37	4	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5	0	
Barium	ppm	ASTM D5185m		7	2	
Volybdenum	ppm	ASTM D5185m		<1	0	
Vanganese	ppm	ASTM D5185m		<1	8	
Vagnesium	ppm	ASTM D5185m		3	5	
Calcium	ppm	ASTM D5185m		39	4	
Phosphorus	ppm	ASTM D5185m		498	463	
Zinc	ppm	ASTM D5185m		0	0	
			limit/booo	-		
CONTAMINANTS	>	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	7	8	
Sodium	ppm	ASTM D5185m		17	3	
Potassium	ppm	ASTM D5185m	>20	2	1	
Nater	%	ASTM D6304	>0.2	e 1.029	<u> </u>	
opm Water	ppm	ASTM D6304	>2000	• 10293.9	▲ 3569.3	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.25	1.476	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	MODER	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
		*Visual *Visual	NONE NORML	NONE NORML	NONE	
Sand/Dirt	scalar					
Sand/Dirt Appearance	scalar scalar	*Visual	NORML	NORML	A MILKY	



OIL ANALYSIS REPORT



Contact/Location: James Holliday - PERMARRP