

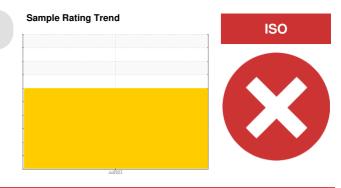
PROBLEM SUMMARY

HOFFMAN HRM001

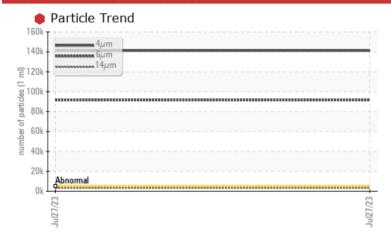
Component

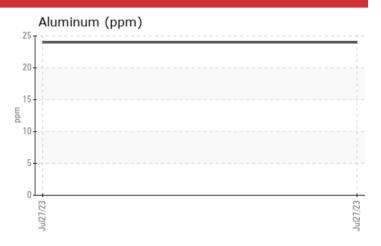
Unknown Component

HOUGHTON DASCOLENE 598 DBR (5000 LTR)



COMPONENT CONDITION SUMMARY





RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We advise that you check all areas where contaminants can enter the system. 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 in 30-45 days to monitor this situation. Please provide more complete information on your next sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.

Customer Id: CAM148GUE **Sample No.:** PC0076473 Lab Number: 02572943 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

PROBLEMATIC TEST RESULTS									
Sample Status		SEVERE							
Particles >4µm	ASTM D7647 >	5000 141167							
Particles >6µm	ASTM D7647 >	1300 91489							
Particles >14µm	ASTM D7647 >	160 3336		***					
Particles >21µm	ASTM D7647 >	4 0 🔺 170							
Oil Cleanliness	ISO 4406 (c) >	19/17/14 • 24/24/19							

RECOMMENDED	ECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description		
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		
Resample			?	Resample in 30-45 days to monitor this situation.		
Contact Required			?	Please contact your representative for information regarding the proper sampling kits for your service.		
Alert			?	Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. NOTE: We recommend using IND 3 test kits.		
Information Required			?	Please provide more complete information on your next sample.		
Check Breathers			?	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.		
Check Dirt Access			?	We advise that you check all areas where contaminants can enter the system.		
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

HOFFMAN HRM001

Unknown Component

HOUGHTON DASCOLENE 598 DBR (5000

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use offline 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 in 30-45 days to monitor this situation. Please provide more complete information on your next sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid.

Wear

Component wear rates appear to be normal (unconfirmed).

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the sample.

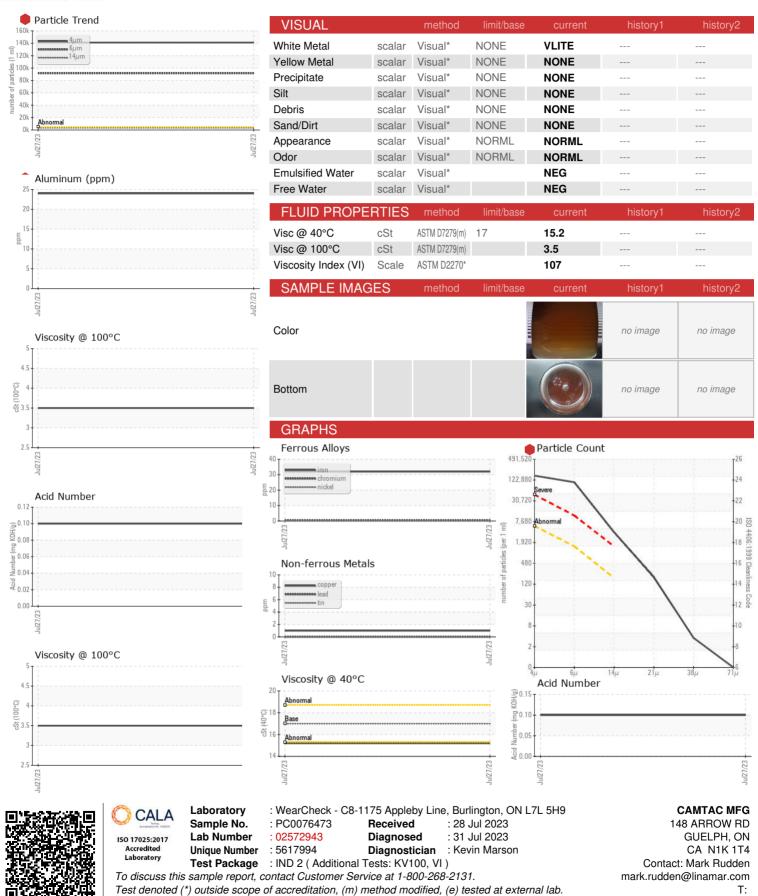
Fluid Condition

The sample is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

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SAMPLE INFOR	RIVIATIOI		limit/base		history1	history2
Sample Number		Client Info		PC0076473		
Sample Date		Client Info		27 Jul 2023		
Machine Age	mths	Client Info		3		
Oil Age	mths	Client Info		0		
Oil Changed		Client Info		Filtered		
Sample Status				SEVERE		
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)		32		
Chromium	ppm	ASTM D5185(m)		<1		
Nickel	ppm	ASTM D5185(m)		0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		24		
_ead	ppm	ASTM D5185(m)		0		
Copper	ppm	ASTM D5185(m)		1		
Fin	ppm	ASTM D5185(m)		0		
Antimony	ppm	ASTM D5185(m)		0		
√anadium		ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	. ,				
	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		1		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		7		
Magnesium	ppm	ASTM D5185(m)		<1		
Calcium	ppm	ASTM D5185(m)		31		
Phosphorus	ppm	ASTM D5185(m)		773		
Zinc	ppm	ASTM D5185(m)		6		
Sulfur	ppm	ASTM D5185(m)		16716		
₋ithium	ppm	ASTM D5185(m)		<1		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		3		
Sodium	ppm	ASTM D5185(m)		15		
Potassium	ppm	ASTM D5185(m)	>20	6		
FLUID CLEAN	JLINES	S method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	141167		
Particles >6µm		ASTM D7647	>1300	91489		
Particles >14µm		ASTM D7647	>160	3336		
Particles >21µm		ASTM D7647	>40	→ 3330		
Particles >38µm		ASTM D7647	>40	3		
		ASTM D7647				
Particles >71µm				0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	24/24/19		
FLUID DEGRA	OITADA	M method	limit/base	current	history1	history2



OIL ANALYSIS REPORT



Validity of results and interpretation are based on the sample and information as supplied.

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