



WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
HOFFMAN HRM001
 Component
Unknown Component
 Fluid
HOUGHTON DASCOLENE 598 DBR (5000 LTR)

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.

Test	UOM	Method	Limit/Abn	Current	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	---	---
Filter Age	mths	Client Info		0	---	---
Oil Changed		Client Info		Filtered	---	---
Filter Changed		Client Info		Cleaned	---	---
Sample Status				SEVERE	---	---

WEAR

Component wear rates appear to be normal (unconfirmed).

Iron	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	---	---
Lead	ppm	ASTM D5185(m)		0	---	---
Copper	ppm	ASTM D5185(m)		1	---	---
Tin	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

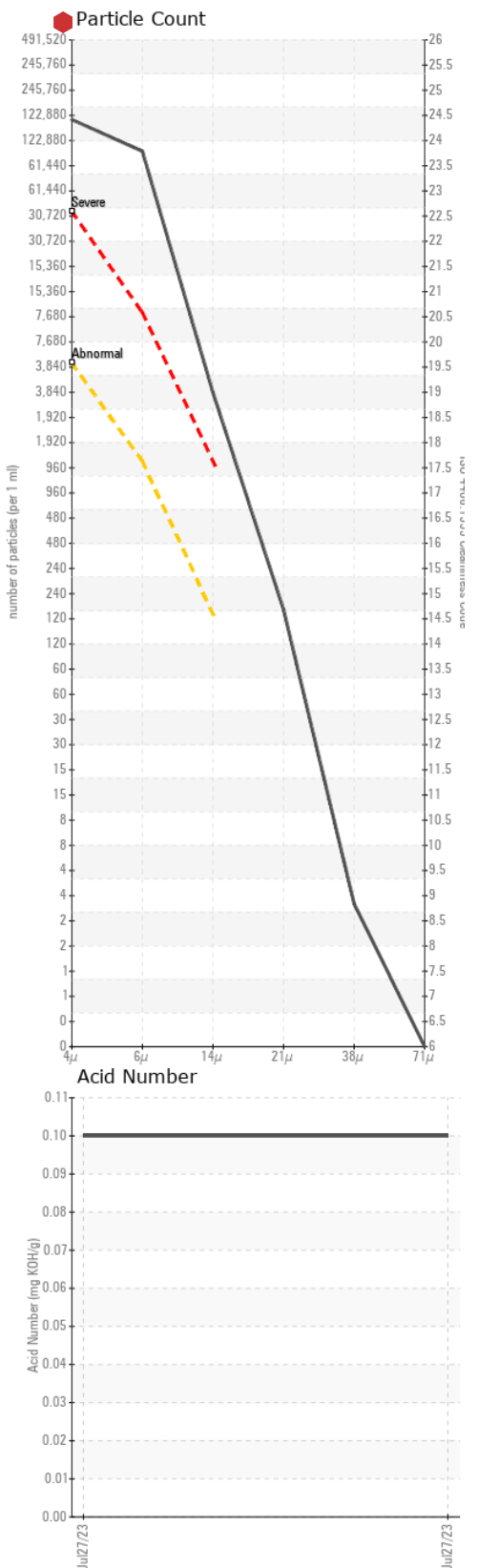
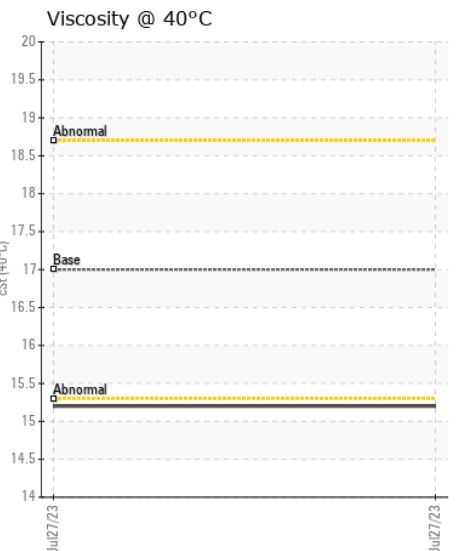
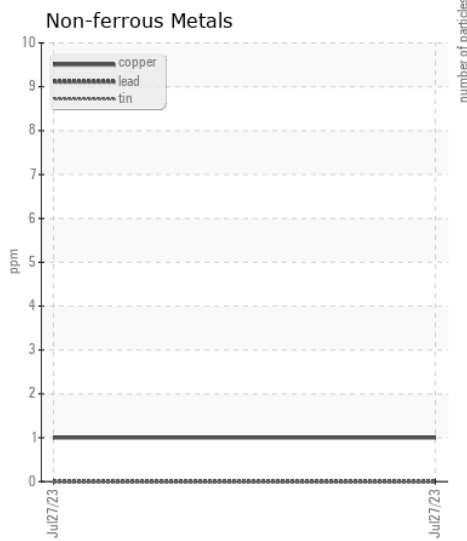
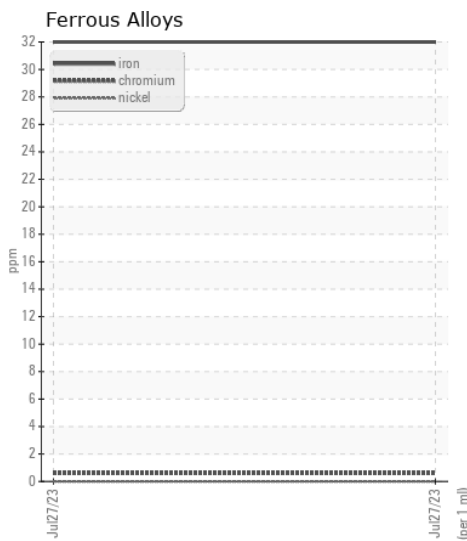
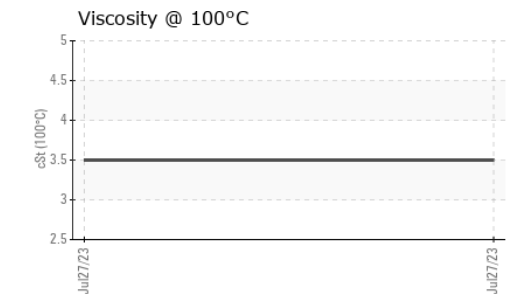
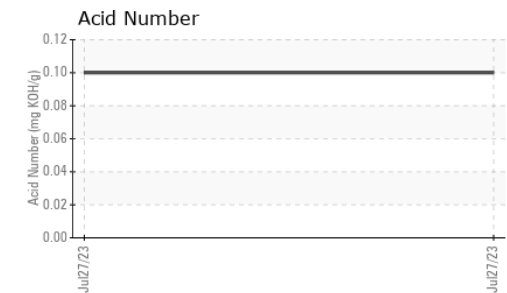
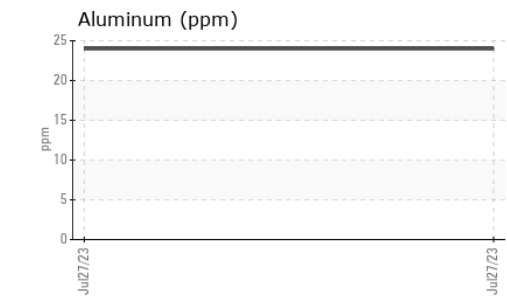
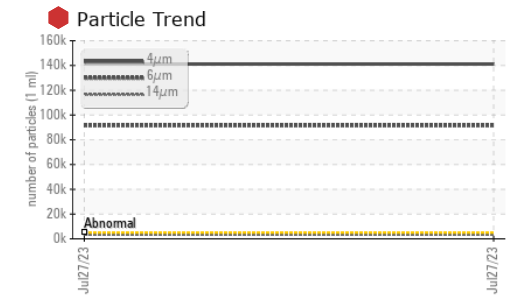
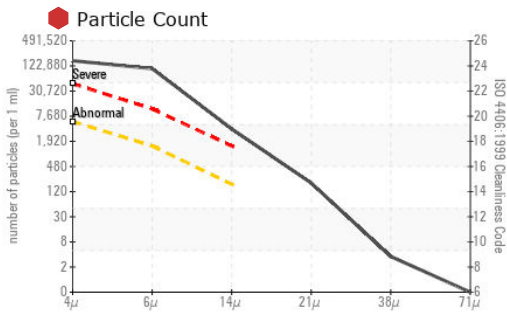
There is a high amount of particulates (2 to 100 microns in size) present in the sample.

Silicon	ppm	ASTM D5185(m)		3	---	---
Potassium	ppm	ASTM D5185(m)	>20	6	---	---
Water		WC Method		NEG	---	---
Particles >4µm		ASTM D7647	>5000	141167	---	---
Particles >6µm		ASTM D7647	>1300	91489	---	---
Particles >14µm		ASTM D7647	>160	3336	---	---
Particles >21µm		ASTM D7647	>40	170	---	---
Particles >38µm		ASTM D7647	>10	3	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	24/24/19	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*		NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		15	---	---
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	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		0.10	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	17	15.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		3.5	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		107	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0076473
Lab Number : 02572943
Unique Number : 5617994
Test Package : IND 2 (Additional Tests: KV100, VI)

CAMTAC MFG (division of Linamar)
 148 ARROW RD
 GUELPH, ON
 CA N1K 1T4
 Contact: Mark Rudden
 mark.rudden@linamar.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.