OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area
Atlas Tube - 888107
Machine Id
RB068
Component
Hydraulic System
Fluid
HOUGHTON WOCO AW 46 (--- GAL)

DIAGNOSIS

Recommendation
The sample submitted is 2 times dirtier than the ISO dirt count recommendation of 19/16/14.

Contamination
Particles >6µm and oil cleanliness are abnormally high. Particles >4µm are notably high.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Department		Client Info		**Sales**	---	---
Sample From		Client Info		**Drum**	---	---
Production Stage		Client Info		**Virgin**	---	---
Sent to WC		Client Info		**07/15/2024**	---	---
Sample Number		Client Info		**E30002646**	---	---
Sample Date		Client Info		**10 Jul 2024**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ABNORMAL**	---	---

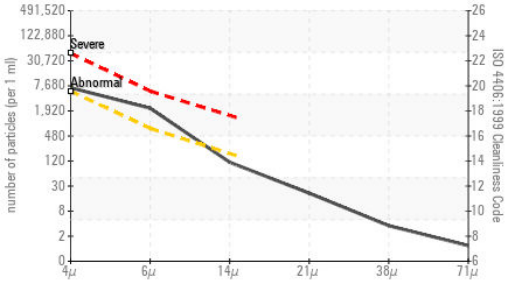
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	**0**	---	---
Chromium	ppm	ASTM D5185(m)	>20	**0**	---	---
Nickel	ppm	ASTM D5185(m)	>20	**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)		**1**	---	---
Aluminum	ppm	ASTM D5185(m)	>20	**0**	---	---
Lead	ppm	ASTM D5185(m)	>20	**0**	---	---
Copper	ppm	ASTM D5185(m)	>20	**<1**	---	---
Tin	ppm	ASTM D5185(m)	>20	**0**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	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)		**0**	---	---
Magnesium	ppm	ASTM D5185(m)		**<1**	---	---
Calcium	ppm	ASTM D5185(m)		**69**	---	---
Phosphorus	ppm	ASTM D5185(m)		**239**	---	---
Zinc	ppm	ASTM D5185(m)		**317**	---	---
Sulfur	ppm	ASTM D5185(m)		**837**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

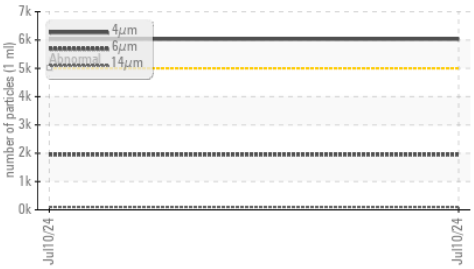
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**0**	---	---
Sodium	ppm	ASTM D5185(m)		**0**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**<1**	---	---
Water	%	ASTM D6304*	>0.05	**0.003**	---	---
ppm Water	ppm	ASTM D6304*	>500	**31**	---	---

OIL ANALYSIS REPORT

Particle Count

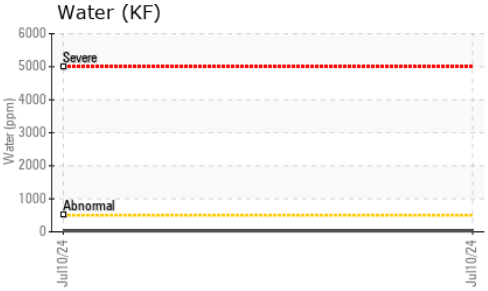


Particle Trend



Acid Number

Water (KF)



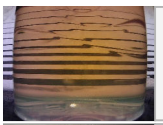
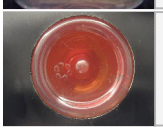
Viscosity @ 100°C

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**6031**	---	---
Particles >6µm		ASTM D7647	>640	**1949**	---	---
Particles >14µm		ASTM D7647	>160	**99**	---	---
Particles >21µm		ASTM D7647	>40	**18**	---	---
Particles >38µm		ASTM D7647	>10	**3**	---	---
Particles >71µm		ASTM D7647	>3	**1**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/16/14	**20/18/14**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		**0.22**	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**NONE**	---	---
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*	>0.05	**NEG**	---	---
Free Water	scalar	Visual*		**NEG**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46	**44.1**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		**6.7**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	95	**104**	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : E30002646 **Received** : 16 Jul 2024
Lab Number : 02648147 **Tested** : 17 Jul 2024
Unique Number : 5813699 **Diagnosed** : 18 Jul 2024 - Tatiana Sorkina
Test Package : IND 2 (Additional Tests: KF, KV100, VI)

To discuss this sample report, contact Customer Service at 1-905-372-2251.
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.

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