OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Area
{UNASSIGNED} [RO 41021]
Machine Id
ASV RT135F DDC RT135F (S/N ASVRT135PRDF00989)
Component
Hydraulic System
Fluid
SCHAEFFER 112 HTC OIL ISO 46 (20 GAL)

DIAGNOSIS

Recommendation
We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Customer put water in hydraulic oil. Changed hyd oil and filter once before taking sample. Oil was change one more time after sample. Oil did look alot clearer and not as milky.)

Wear
All component wear rates are normal.

Contamination
Appearance is hazy. There is a light concentration of water present 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**SHM0000090**	---	---
Sample Date		Client Info		**05 Jun 2024**	---	---
Machine Age	hrs	Client Info		**345**	---	---
Oil Age	hrs	Client Info		**95**	---	---
Oil Changed		Client Info		**Changed**	---	---
Sample Status				**ABNORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**4**	---	---
Chromium	ppm	ASTM D5185m	>10	**0**	---	---
Nickel	ppm	ASTM D5185m	>10	**0**	---	---
Titanium	ppm	ASTM D5185m		**0**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>10	**<1**	---	---
Lead	ppm	ASTM D5185m	>10	**0**	---	---
Copper	ppm	ASTM D5185m	>75	**3**	---	---
Tin	ppm	ASTM D5185m	>10	**0**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	---	---
Barium	ppm	ASTM D5185m		**<1**	---	---
Molybdenum	ppm	ASTM D5185m	334	**147**	---	---
Manganese	ppm	ASTM D5185m		**0**	---	---
Magnesium	ppm	ASTM D5185m	0	**0**	---	---
Calcium	ppm	ASTM D5185m	54	**42**	---	---
Phosphorus	ppm	ASTM D5185m	900	**301**	---	---
Zinc	ppm	ASTM D5185m	880	**56**	---	---
Sulfur	ppm	ASTM D5185m	2200	**801**	---	---

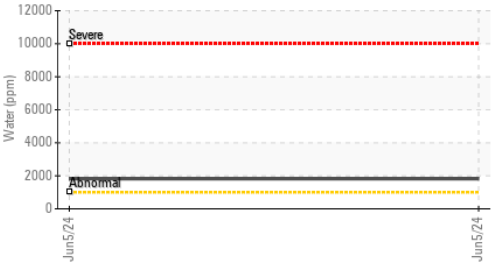
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**2**	---	---
Sodium	ppm	ASTM D5185m		**2**	---	---
Potassium	ppm	ASTM D5185m	>20	**0**	---	---
Water	%	ASTM D6304	>0.1	▲ **0.182**	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ **1820**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**1688**	---	---
Particles >6µm		ASTM D7647	>1300	**919**	---	---
Particles >14µm		ASTM D7647	>160	**156**	---	---
Particles >21µm		ASTM D7647	>40	**53**	---	---
Particles >38µm		ASTM D7647	>10	**8**	---	---
Particles >71µm		ASTM D7647	>3	**1**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**18/17/14**	---	---

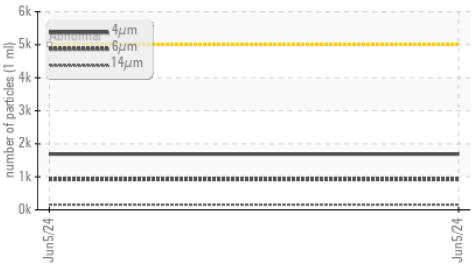
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	**0.63**	---	---

OIL ANALYSIS REPORT

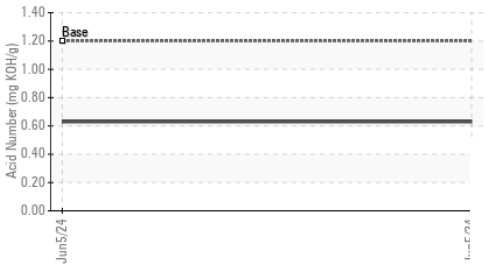
Water (KF)



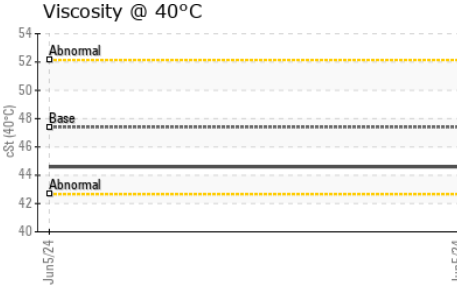
Particle Trend



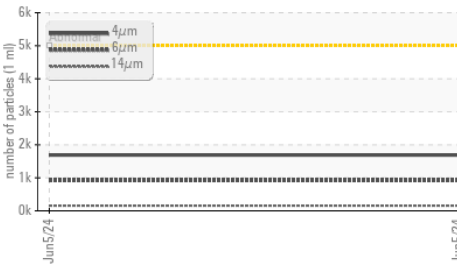
Acid Number



Viscosity @ 40°C



Particle Trend



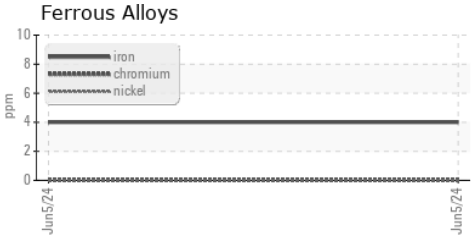
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**HAZY**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.1	**0.2%**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	47.4	**44.6**	---	---

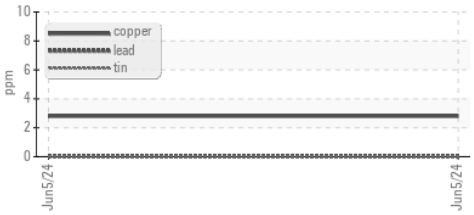
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

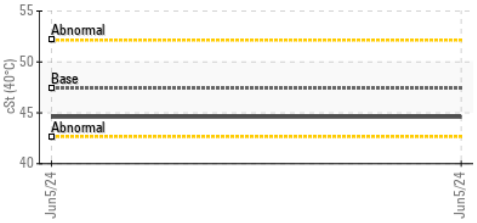
Ferrous Alloys



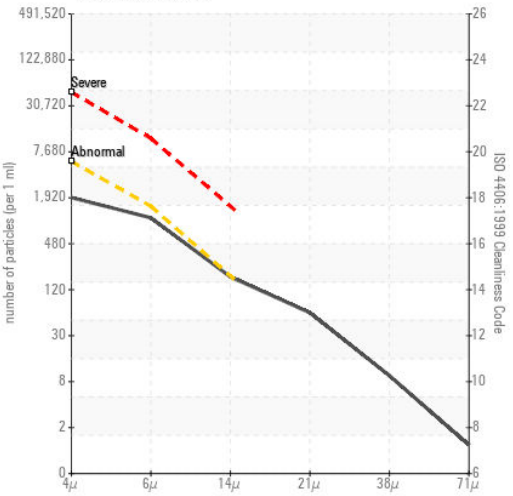
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SHM0000090 **Received** : 11 Jun 2024
Lab Number : 06206436 **Tested** : 19 Jun 2024
Unique Number : 11073897 **Diagnosed** : 19 Jun 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: KF)

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

SOUND HEAVY MACHINERY
1809 BLUE CLAY RD
WILMINGTON, NC
US 28405
Contact: CONNER GORE
cgore@soundhm.com
T: (910)782-2477
F: (910)782-2477

Report Id: SOUWILJR [WUSCAR] 06206436 (Generated: 06/19/2024 11:48:02) Rev: 2

Submitted By: SERVICE MANAGER