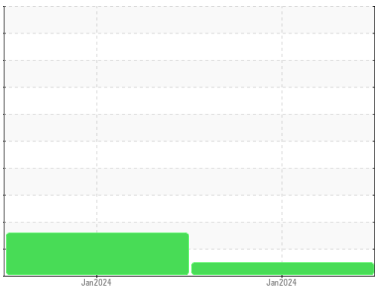
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

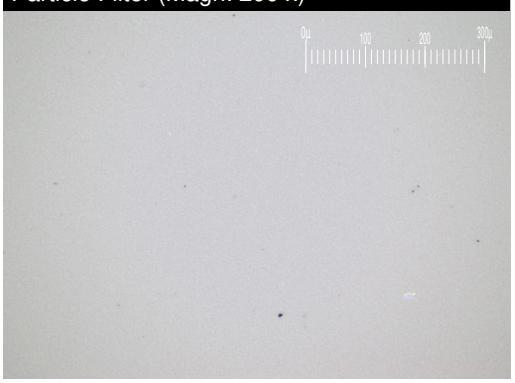
Area
Portage
Machine Id
UEHA
Component
Drum of Oil
Fluid
MOBIL ATF (--- GAL)

DIAGNOSIS

Recommendation
This is a baseline read-out on the submitted sample. (Customer Sample Comment: Please add Karl Fischer test. If possible also measure relative humidity at room temp. We are trying to get a comparison vs a RH% meter device we have on this work center. Related sample ph0001860 is known to have water contamination.)

Contamination
There is a trace of moisture present in the oil.

Particle Filter (Magn: 200 x)



SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PH0001859**	PH0001860	---
Sample Date		Client Info		**09 Jan 2024**	09 Jan 2024	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**NORMAL**	MARGINAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		**<1**	<1	---
Chromium	ppm	ASTM D5185m		**0**	0	---
Nickel	ppm	ASTM D5185m		**0**	0	---
Titanium	ppm	ASTM D5185m		**<1**	<1	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m		**2**	2	---
Lead	ppm	ASTM D5185m		**0**	0	---
Copper	ppm	ASTM D5185m		**<1**	<1	---
Tin	ppm	ASTM D5185m		**<1**	<1	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**80**	75	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**<1**	<1	---
Manganese	ppm	ASTM D5185m		**0**	<1	---
Magnesium	ppm	ASTM D5185m		**2**	2	---
Calcium	ppm	ASTM D5185m		**108**	109	---
Phosphorus	ppm	ASTM D5185m		**228**	221	---
Zinc	ppm	ASTM D5185m		**0**	0	---
Sulfur	ppm	ASTM D5185m		**1229**	1160	---

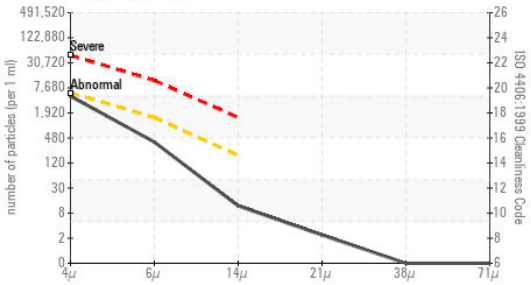
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**4**	5	---
Sodium	ppm	ASTM D5185m		**0**	0	---
Potassium	ppm	ASTM D5185m	>20	**1**	2	---
Water	%	ASTM D6304		**0.085**	▲ 0.174	---
ppm Water	ppm	ASTM D6304		**850**	▲ 1740	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**4231**	4275	---
Particles >6µm		ASTM D7647	>1300	**337**	209	---
Particles >14µm		ASTM D7647	>160	**10**	6	---
Particles >21µm		ASTM D7647	>40	**2**	1	---
Particles >38µm		ASTM D7647	>10	**0**	0	---
Particles >71µm		ASTM D7647	>3	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**19/16/10**	19/15/10	---

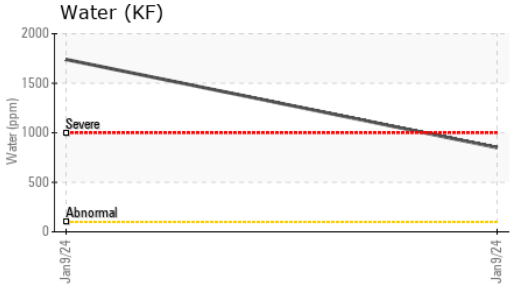
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.25**	1.10	---

OIL ANALYSIS REPORT

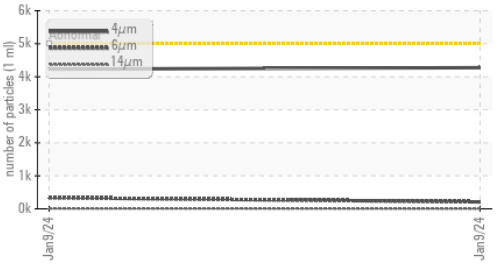
Particle Count



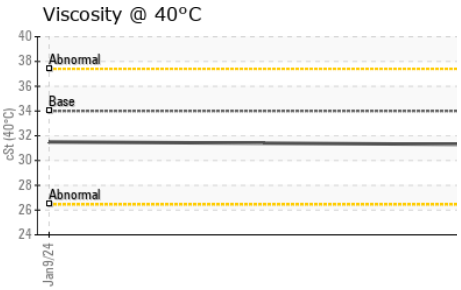
Water (KF)



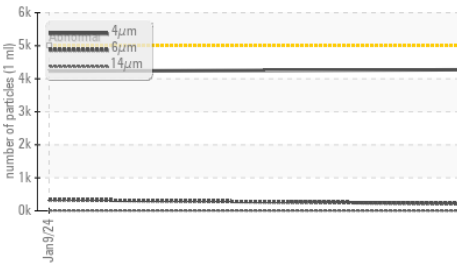
Particle Trend



Viscosity @ 40°C



Particle Trend



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
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	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual		**0.2%**	▲ 0.2%	---
Free Water	scalar	*Visual		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	34	**31.3**	31.5	---

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

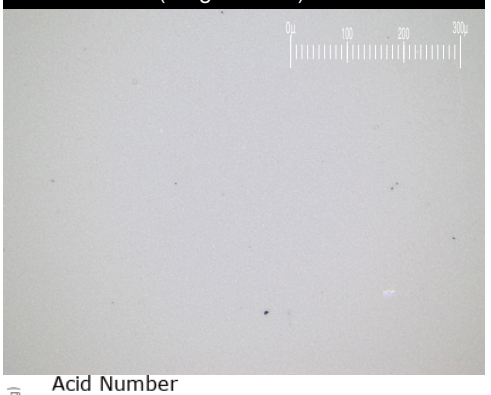
GRAPHS

Ferrous Alloys

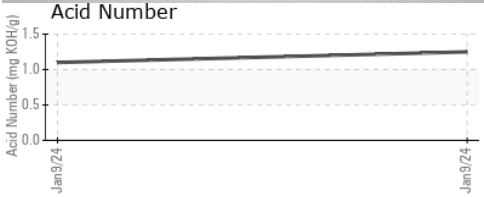
Non-ferrous Metals

Viscosity @ 40°C

Particle Filter (Magn: 200 x)



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH0001859 **Recieved** : 11 Jan 2024
Lab Number : 06058071 **Diagnosed** : 17 Jan 2024
Unique Number : 10829453 **Diagnostician** : Doug Bogart
Test Package : PLANT (Additional Tests: KF, PrtFilter)

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)

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