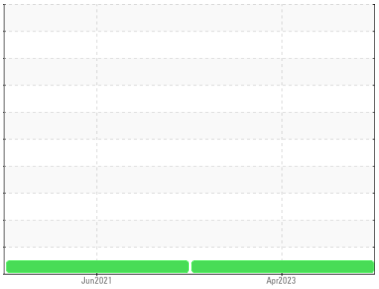
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
04
Machine Id
[04] BASELINE - TURBINE LIFE 68 REF
Component
New (Unused) Oil
Fluid
High Performance Lubricants Turbine Life 68 (1 QTS)

DIAGNOSIS

Recommendation
This is a baseline read-out on the submitted sample. (Customer Sample Comment: Batch#22L1601)

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**HPL0003345**	HPL008195	---
Sample Date		Client Info		**11 Apr 2023**	29 Jun 2021	---
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**	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method		**NEG**	NEG	---

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

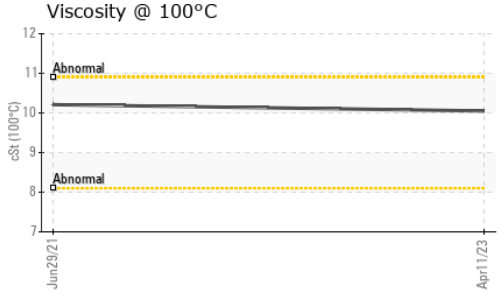
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	13	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**0**	0	---
Manganese	ppm	ASTM D5185m		**0**	<1	---
Magnesium	ppm	ASTM D5185m		**0**	2	---
Calcium	ppm	ASTM D5185m		**2**	4	---
Phosphorus	ppm	ASTM D5185m		**200**	341	---
Zinc	ppm	ASTM D5185m		**2**	2	---
Sulfur	ppm	ASTM D5185m		**16891**	16198	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**<1**	<1	---
Sodium	ppm	ASTM D5185m		**0**	<1	---
Potassium	ppm	ASTM D5185m	>20	**<1**	0	---

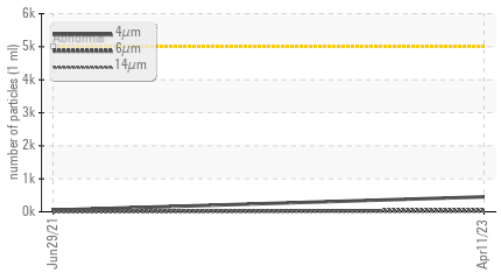
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	**453**	53	---
Particles >6µm	ASTM D7647	>1300	**43**	10	---
Particles >14µm	ASTM D7647	>160	**5**	1	---
Particles >21µm	ASTM D7647	>40	**1**	0	---
Particles >38µm	ASTM D7647	>10	**0**	0	---
Particles >71µm	ASTM D7647	>3	**0**	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	**16/13/10**	13/10/7	---

OIL ANALYSIS REPORT

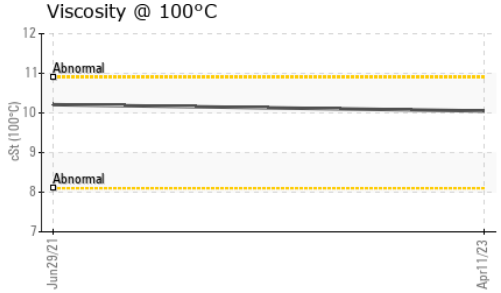
Viscosity @ 100°C



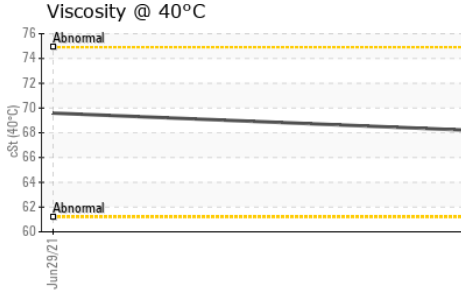
Particle Trend



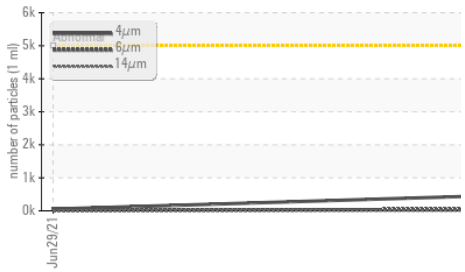
Viscosity @ 100°C



Viscosity @ 40°C



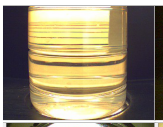
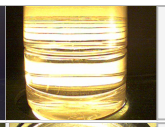
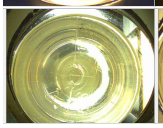
Particle Trend



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.60**	1.075	---

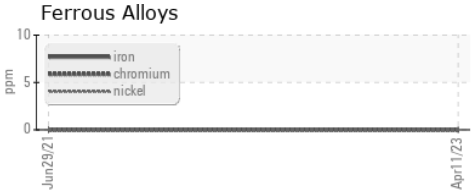
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**68.15**	69.59	---
Visc @ 100°C	cSt	ASTM D445		**10.05**	10.21	---
Viscosity Index (VI)	Scale	ASTM D2270		**131**	131	---

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

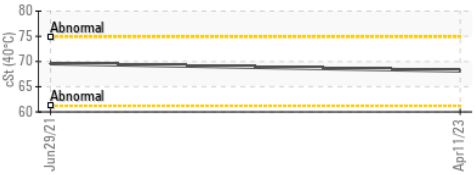
GRAPHS

Ferrous Alloys

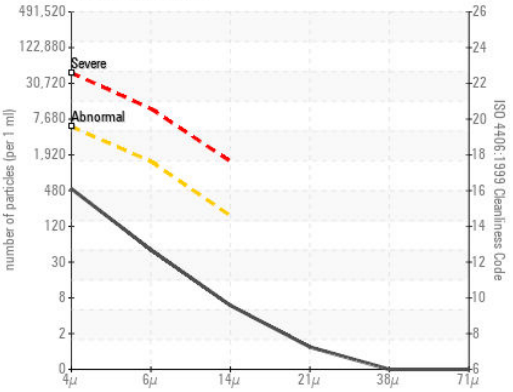


Non-ferrous Metals

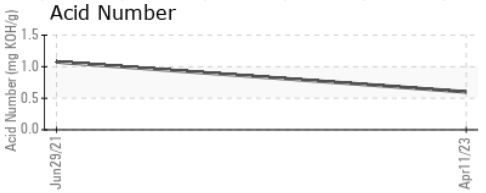
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : HPL0003345 **Recieved** : 14 Apr 2023
Lab Number : 05821215 **Diagnosed** : 19 Apr 2023
Unique Number : 10429298 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: FT-IR, KV100, PrtCount, VI)

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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