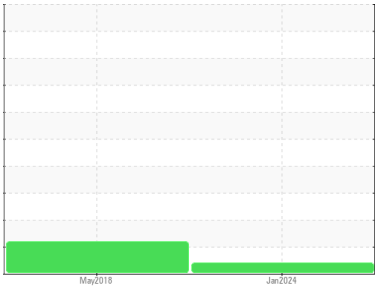
OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS

Machine Id
ATP USED CUTTING OIL
Component
Cutting Fluid
Fluid
SIGNAL CUT 390 (300 GAL)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear
All component wear rates are normal.

Contamination
Moderate concentration of visible dirt/debris present in the cutting fluid.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the cutting fluid is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0819602**	WCI2288899	---
Sample Date		Client Info		**24 Jan 2024**	23 May 2018	---
Machine Age	yrs	Client Info		**0**	0	---
Oil Age	yrs	Client Info		**0**	2	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**ABNORMAL**	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130		**16**	50	---
Chromium	ppm	ASTM D6130		**0**	<1	---
Nickel	ppm	ASTM D6130		**0**	<1	---
Titanium	ppm	ASTM D6130		**<1**	<1	---
Silver	ppm	ASTM D6130		**0**	0	---
Aluminum	ppm	ASTM D6130		**0**	12	---
Lead	ppm	ASTM D6130		**2**	24	---
Copper	ppm	ASTM D6130		**1**	<1	---
Tin	ppm	ASTM D6130		**0**	0	---
Antimony	ppm	ASTM D6130		**---**	0	---
Vanadium	ppm	ASTM D6130		**0**	0	---
Cadmium	ppm	ASTM D6130		**0**	0	---

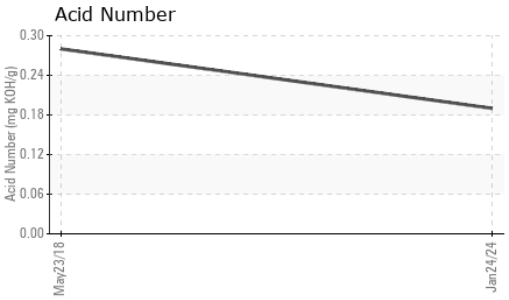
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D6130		**0**	<1	---
Barium	ppm	ASTM D6130		**0**	5	---
Molybdenum	ppm	ASTM D6130		**0**	0	---
Manganese	ppm	ASTM D6130		**6**	51	---
Magnesium	ppm	ASTM D6130		**0**	3	---
Calcium	ppm	ASTM D6130		**7**	9	---
Phosphorus	ppm	ASTM D6130		**66**	113	---
Zinc	ppm	ASTM D6130		**0**	16	---
Sulfur	ppm	ASTM D6130		**7364**	3168	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130		**3**	<1	---
Sodium	ppm	ASTM D6130		**1**	4	---
Potassium	ppm	ASTM D6130	>20	**<1**	26	---
Water	%	ASTM D6304		**NEG**	NEG	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**---**	▲ 209807	---
Particles >6µm		ASTM D7647	>1300	**---**	▲ 100213	---
Particles >14µm		ASTM D7647	>160	**---**	▲ 608	---
Particles >21µm		ASTM D7647	>40	**---**	15	---
Particles >38µm		ASTM D7647	>10	**---**	0	---
Particles >71µm		ASTM D7647	>3	**---**	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**---**	▲ 25/24/16	---

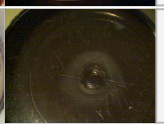
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.19**	0.280	---

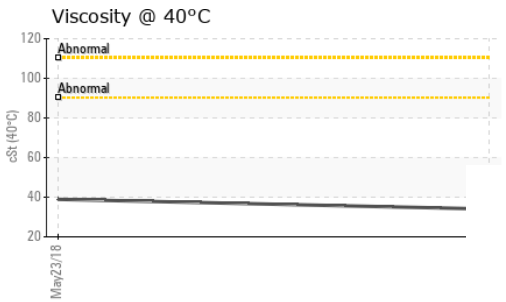
OIL ANALYSIS REPORT



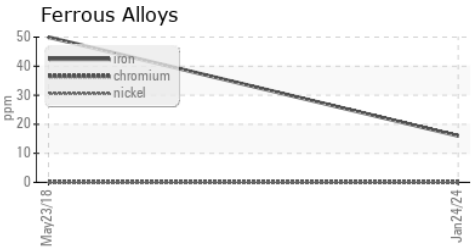
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	▲ **MODER**	NONE	---
Sand/Dirt	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	---

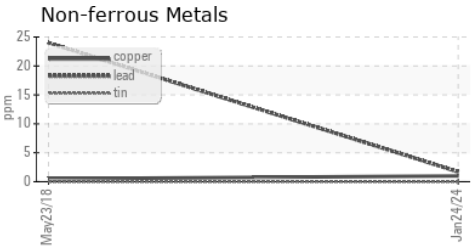
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**34.0**	38.92	---

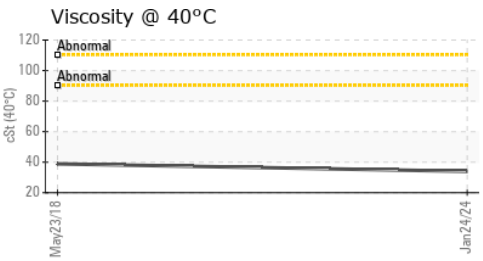
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

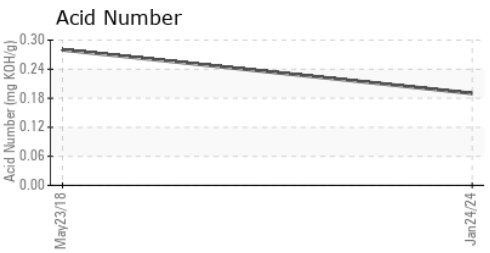


GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0819602 **Recieved** : 30 Jan 2024
Lab Number : 06073836 **Diagnosed** : 31 Jan 2024
Unique Number : 10855927 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: PrtCount)

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)

BEACON LUBRICANTS
P.O. BOX 754
EDINBORO, PA
US 16412
Contact: Brent Hulings
purchasing@beaconlubricants.com
T: (814)734-7535
F: (814)734-3460