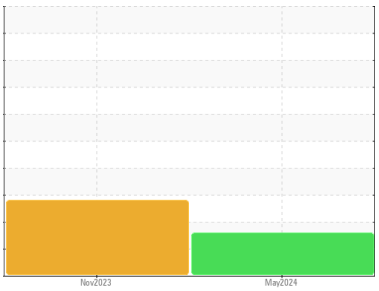
OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id
SKINNER 24
Component
Top Gearbox
Fluid
GEAR OIL (PAG) ISO 460 (--- GAL)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition
Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USP0011773**	USP0003730	---
Sample Date		Client Info		**10 May 2024**	13 Nov 2023	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**ABNORMAL**	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**5**	2	---
Chromium	ppm	ASTM D5185m	>15	**0**	0	---
Nickel	ppm	ASTM D5185m	>15	**0**	0	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**<1**	0	---
Aluminum	ppm	ASTM D5185m	>25	**0**	<1	---
Lead	ppm	ASTM D5185m	>100	**0**	0	---
Copper	ppm	ASTM D5185m	>200	**4**	<1	---
Tin	ppm	ASTM D5185m	>25	**0**	0	---
Vanadium	ppm	ASTM D5185m		**<1**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	**0**	0	---
Barium	ppm	ASTM D5185m	5	**0**	0	---
Molybdenum	ppm	ASTM D5185m	5	**0**	0	---
Manganese	ppm	ASTM D5185m		**0**	0	---
Magnesium	ppm	ASTM D5185m	5	**0**	0	---
Calcium	ppm	ASTM D5185m	5	**0**	0	---
Phosphorus	ppm	ASTM D5185m	775	**284**	746	---
Zinc	ppm	ASTM D5185m	5	**0**	8	---
Sulfur	ppm	ASTM D5185m	2000	**767**	1435	---

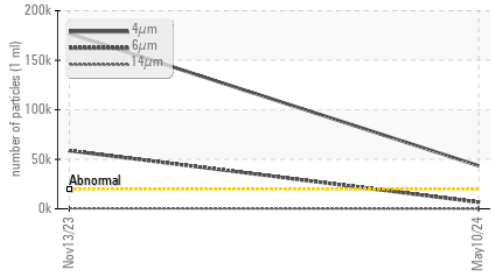
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**6**	9	---
Sodium	ppm	ASTM D5185m		**<1**	0	---
Potassium	ppm	ASTM D5185m	>20	**0**	3	---
Water	%	ASTM D6304	>0.2	**0.014**	▲ 0.319	---
ppm Water	ppm	ASTM D6304	>2000	**147**	▲ 3191.3	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ **43492**	▲ 176874	---
Particles >6µm		ASTM D7647	>5000	● **6687**	▲ 58778	---
Particles >14µm		ASTM D7647	>640	**114**	525	---
Particles >21µm		ASTM D7647	>160	**19**	57	---
Particles >38µm		ASTM D7647	>40	**2**	3	---
Particles >71µm		ASTM D7647	>10	**1**	1	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **23/20/14**	▲ 25/23/16	---

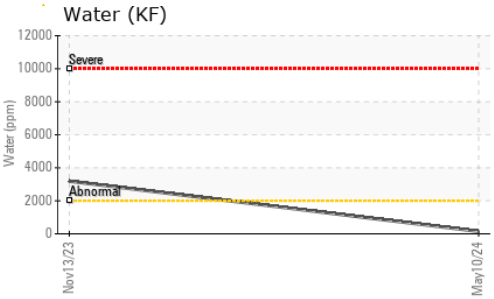
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	**0.54**	0.59	---

OIL ANALYSIS REPORT

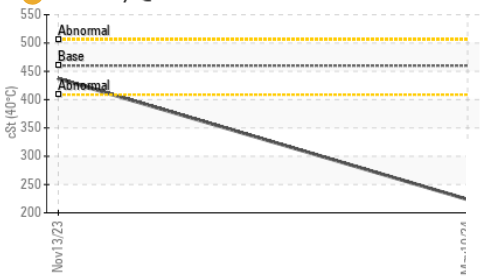
Particle Trend



Water (KF)

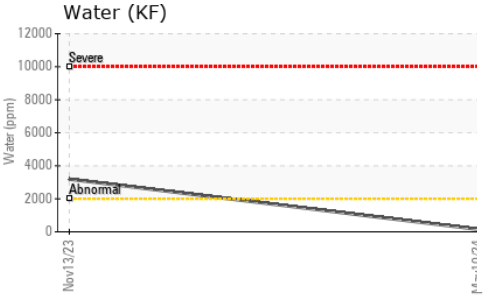


Viscosity @ 40°C



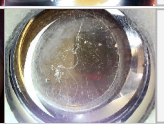
Acid Number

Water (KF)



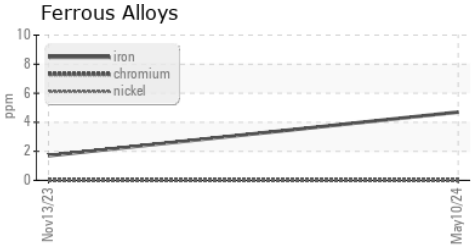
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**MODER**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	460	**223.6**	437	---

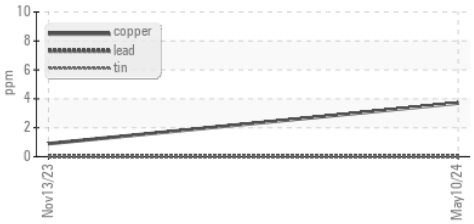
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

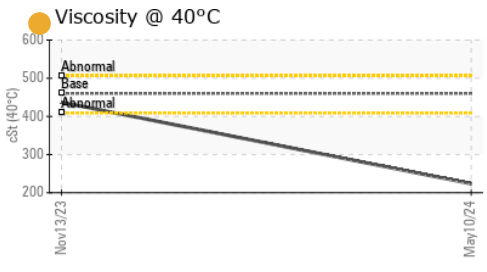
Ferrous Alloys



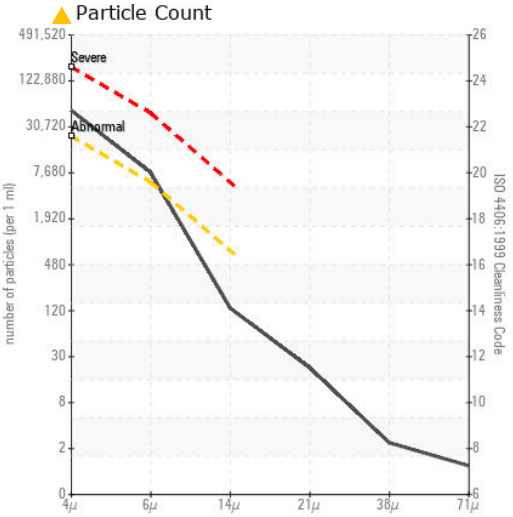
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0011773
Lab Number : 06182887
Unique Number : 11034213
Test Package : IND 2

Received : 17 May 2024
Tested : 30 May 2024
Diagnosed : 30 May 2024 - Jonathan Hester

Certificate L2367

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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