James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
5050
Component
Left Final Drive
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

The chromium level is abnormal. All other metal levels are typical for a new component breaking in.

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

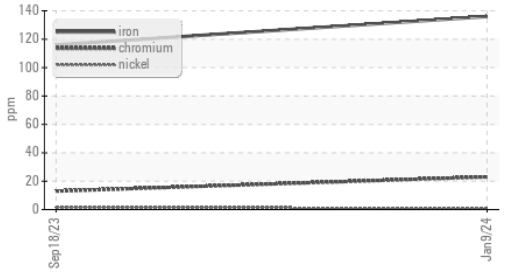
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0195137**	JR0184913	---
Sample Date		Client Info		**09 Jan 2024**	18 Sep 2023	---
Machine Age	hrs	Client Info		**999**	537	---
Oil Age	hrs	Client Info		**500**	500	---
Filter Age	hrs	Client Info		**500**	500	---
Oil Changed		Client Info		**Changed**	Changed	---
Filter Changed		Client Info		**N/A**	Changed	---
Sample Status				**ABNORMAL**	NORMAL	---
PQ		ASTM D8184		**20**	26	---
Iron	ppm	ASTM D5185m	>500	**136**	116	---
Chromium	ppm	ASTM D5185m	>10	▲ **23**	13	---
Nickel	ppm	ASTM D5185m	>10	**1**	1	---
Titanium	ppm	ASTM D5185m		**2**	1	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>25	▲ **31**	13	---
Lead	ppm	ASTM D5185m	>25	**0**	1	---
Copper	ppm	ASTM D5185m	>50	**<1**	1	---
Tin	ppm	ASTM D5185m	>10	**0**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Silicon	ppm	ASTM D5185m	>75	▲ **114**	53	---
Potassium	ppm	ASTM D5185m	>20	**9**	6	---
Water		WC Method	>0.2	**NEG**	NEG	---
Silt	scalar	*Visual	NONE	**NONE**	LIGHT	---
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	---
Sodium	ppm	ASTM D5185m		**8**	8	---
Boron	ppm	ASTM D5185m		**<1**	4	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**2**	2	---
Manganese	ppm	ASTM D5185m		**2**	4	---
Magnesium	ppm	ASTM D5185m		**9**	3	---
Calcium	ppm	ASTM D5185m		**219**	80	---
Phosphorus	ppm	ASTM D5185m		**875**	265	---
Zinc	ppm	ASTM D5185m		**1193**	470	---
Sulfur	ppm	ASTM D5185m		**4439**	10991	---
Visc @ 40°C	cSt	ASTM D445		**46.4**	43.5	---

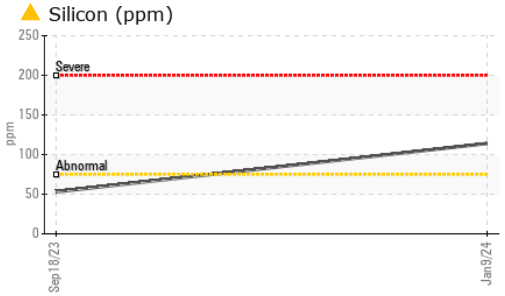
Report Id: PATSTE [WUSCAR] 06063895 (Generated: 01/20/2024 11:13:35) Rev: 1

Submitted By: BRANDON STEVENS

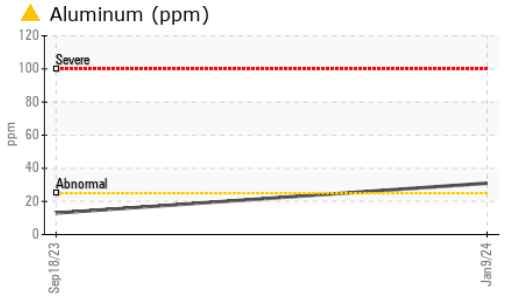
Ferrous Alloys



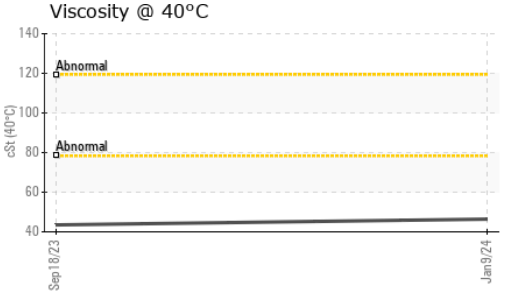
Silicon (ppm)



Aluminum (ppm)

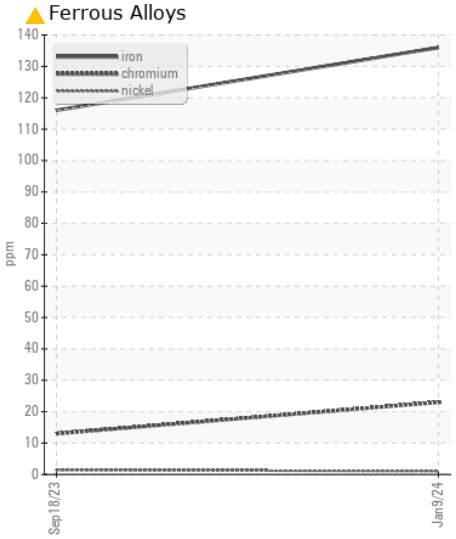


Viscosity @ 40°C

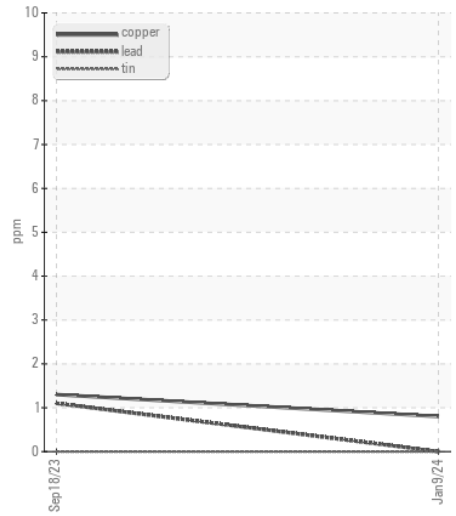


PQ

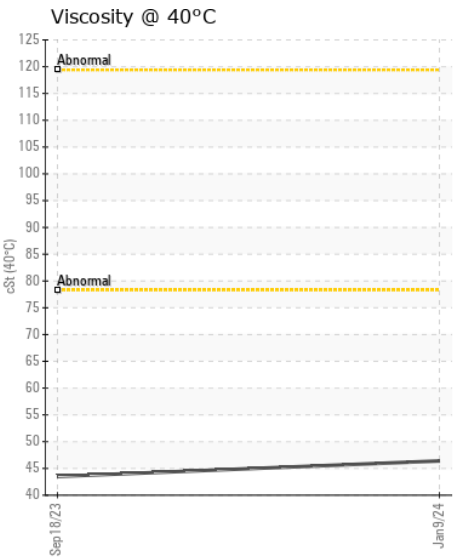
Ferrous Alloys



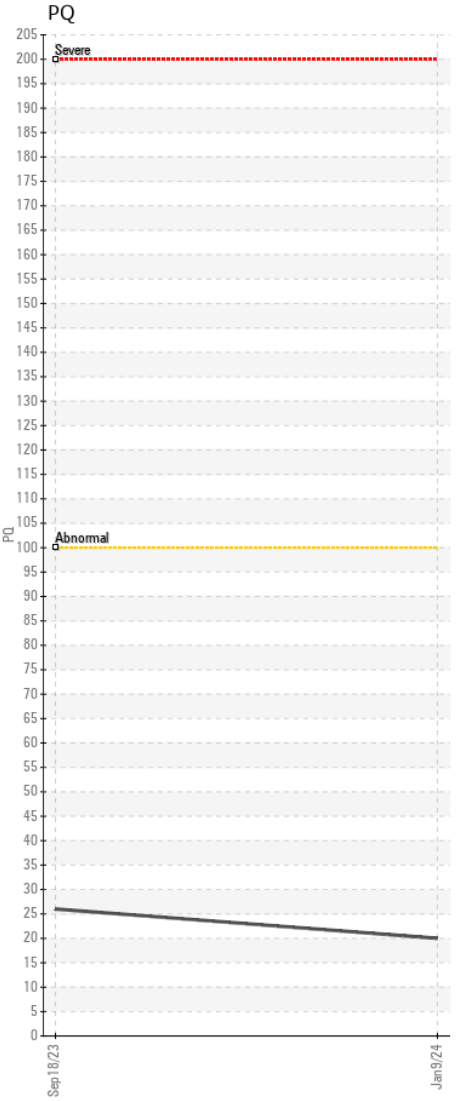
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195137 **Recieved** : 17 Jan 2024
Lab Number : 06063895 **Diagnosed** : 20 Jan 2024
Unique Number : 10835277 **Diagnostician** : Don Baldridge
Test Package : CONST (Additional Tests: PQ)

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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