CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
C220E310190
Component
Hydraulic System
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. 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

The iron level is abnormal. All other component wear rates are normal.

CONTAMINATION

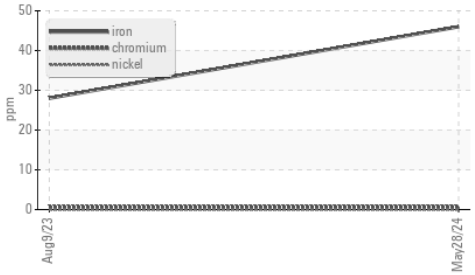
There is a moderate amount of visible silt present in the sample.

FLUID CONDITION

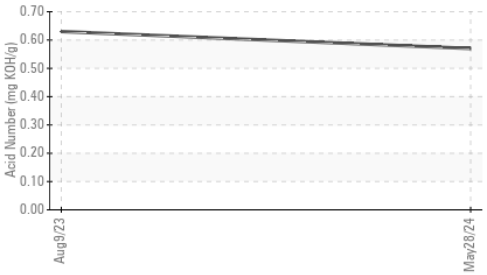
The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0216007	JR0177447	---
Sample Date		Client Info		28 May 2024	09 Aug 2023	---
Machine Age	hrs	Client Info		7482	7482	---
Oil Age	hrs	Client Info		7482	7482	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Not Changd	---
Filter Changed		Client Info		N/A	Not Changd	---
Sample Status				ABNORMAL	ABNORMAL	---
PQ		ASTM D8184		40	12	---
Iron	ppm	ASTM D5185m	>20	▲ 46	28	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>10	7	6	---
Lead	ppm	ASTM D5185m	>10	0	0	---
Copper	ppm	ASTM D5185m	>75	9	9	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	16	11	---
Potassium	ppm	ASTM D5185m	>20	<1	<1	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	---	▲ 46824	---
Particles >6µm		ASTM D7647	>1300	---	▲ 5266	---
Particles >14µm		ASTM D7647	>160	---	▲ 281	---
Particles >21µm		ASTM D7647	>40	---	▲ 67	---
Particles >38µm		ASTM D7647	>10	---	1	---
Particles >71µm		ASTM D7647	>3	---	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	---	▲ 23/20/15	---
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	>0.1	NEG	NEG	---
Sodium	ppm	ASTM D5185m		1	2	---
Boron	ppm	ASTM D5185m		16	26	---
Barium	ppm	ASTM D5185m		0	1	---
Molybdenum	ppm	ASTM D5185m		2	3	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		8	14	---
Calcium	ppm	ASTM D5185m		1016	703	---
Phosphorus	ppm	ASTM D5185m		538	410	---
Zinc	ppm	ASTM D5185m		592	456	---
Sulfur	ppm	ASTM D5185m		2010	1566	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.57	0.63	---
Visc @ 40°C	cSt	ASTM D445		44.1	44.4	---

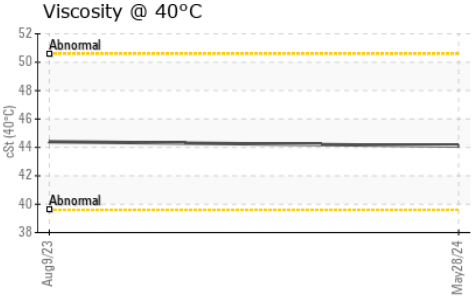
Ferrous Alloys



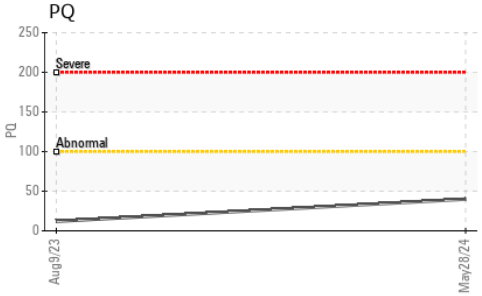
Acid Number



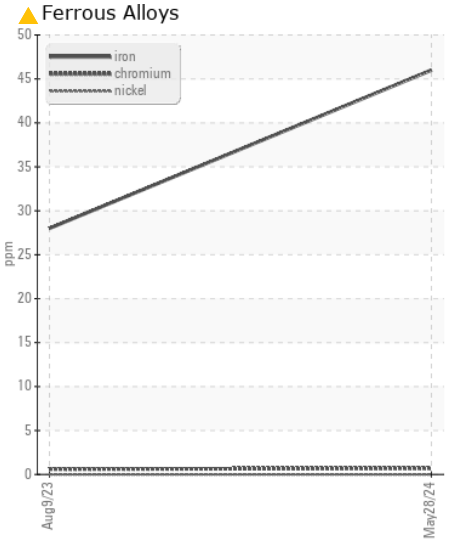
Viscosity @ 40°C



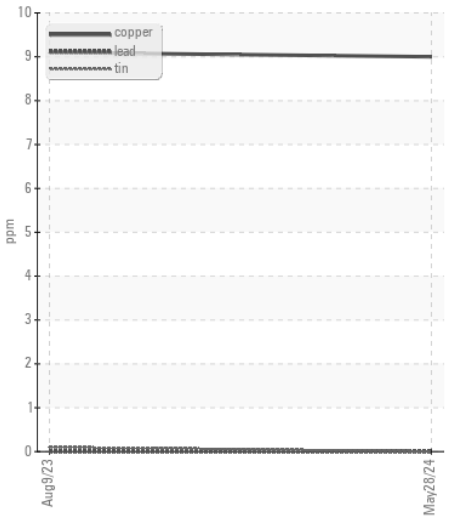
PQ



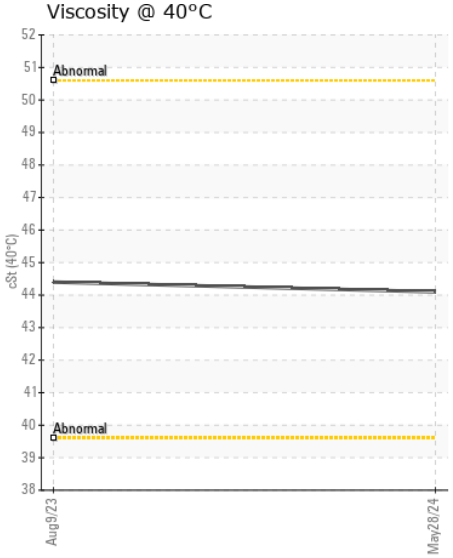
Ferrous Alloys



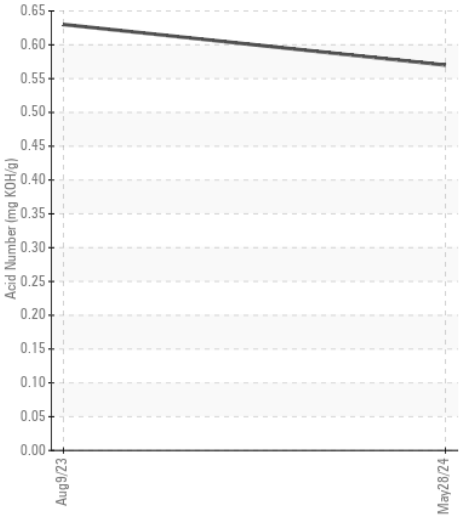
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0216007
Lab Number : 06193879
Unique Number : 11056002
Test Package : CONST (Additional Tests: PQ)

Received : 29 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Angela Borella

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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