CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
5048
Component
Hydraulic System
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

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

CONTAMINATION

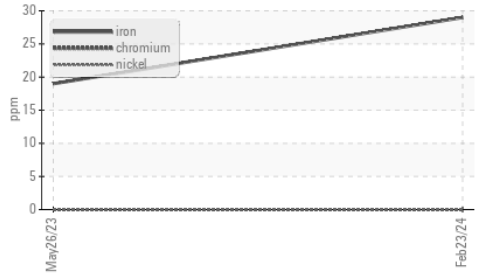
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

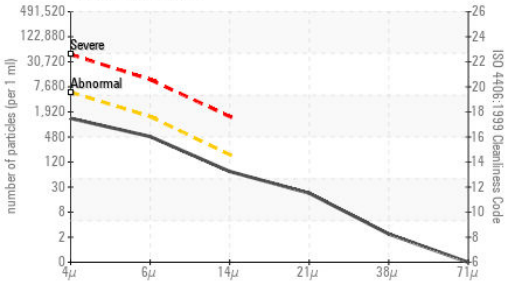
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0195371**	JR0159717	---
Sample Date		Client Info		**23 Feb 2024**	26 May 2023	---
Machine Age	hrs	Client Info		**1992**	1141	---
Oil Age	hrs	Client Info		**2000**	1000	---
Filter Age	hrs	Client Info		**2000**	1000	---
Oil Changed		Client Info		**Changed**	Changed	---
Filter Changed		Client Info		**Changed**	Changed	---
Sample Status				**ABNORMAL**	ABNORMAL	---
PQ		ASTM D8184		**23**	19	---
Iron	ppm	ASTM D5185m	>20	▲ **29**	19	---
Chromium	ppm	ASTM D5185m	>10	**0**	0	---
Nickel	ppm	ASTM D5185m	>10	**0**	0	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**<1**	0	---
Aluminum	ppm	ASTM D5185m	>10	**3**	3	---
Lead	ppm	ASTM D5185m	>10	**<1**	0	---
Copper	ppm	ASTM D5185m	>75	**6**	5	---
Tin	ppm	ASTM D5185m	>10	**<1**	<1	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Silicon	ppm	ASTM D5185m	>20	**4**	2	---
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	---
Water		WC Method	>0.1	**NEG**	NEG	---
Particles >4µm		ASTM D7647	>5000	**1177**	▲ 21318	---
Particles >6µm		ASTM D7647	>1300	**432**	▲ 4590	---
Particles >14µm		ASTM D7647	>160	**63**	● 188	---
Particles >21µm		ASTM D7647	>40	**19**	27	---
Particles >38µm		ASTM D7647	>10	**2**	1	---
Particles >71µm		ASTM D7647	>3	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**17/16/13**	▲ 22/19/15	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	---
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		**3**	2	---
Boron	ppm	ASTM D5185m		**1**	0	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**0**	<1	---
Manganese	ppm	ASTM D5185m		**<1**	<1	---
Magnesium	ppm	ASTM D5185m		**59**	45	---
Calcium	ppm	ASTM D5185m		**189**	163	---
Phosphorus	ppm	ASTM D5185m		**524**	563	---
Zinc	ppm	ASTM D5185m		**681**	727	---
Sulfur	ppm	ASTM D5185m		**5765**	5626	---
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.87**	0.70	---
Visc @ 40°C	cSt	ASTM D445		**43.0**	43.0	---

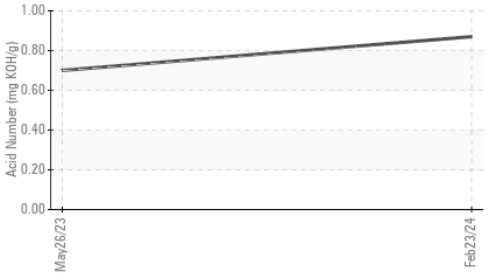
Ferrous Alloys



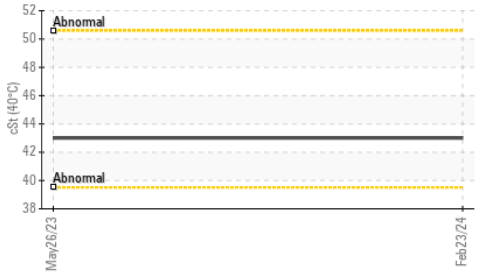
Particle Count



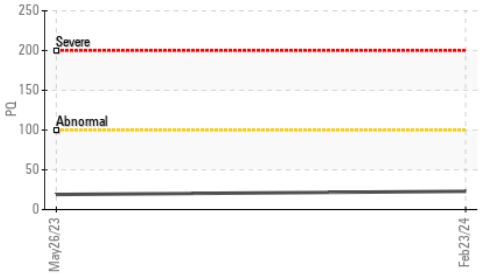
Acid Number



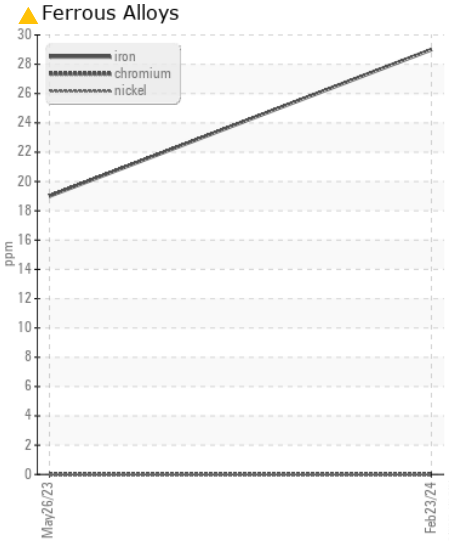
Viscosity @ 40°C



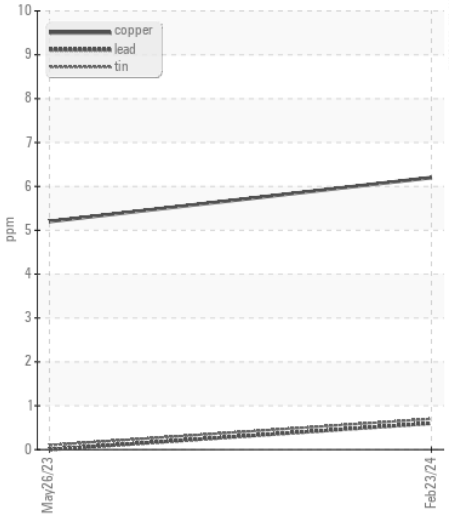
PQ



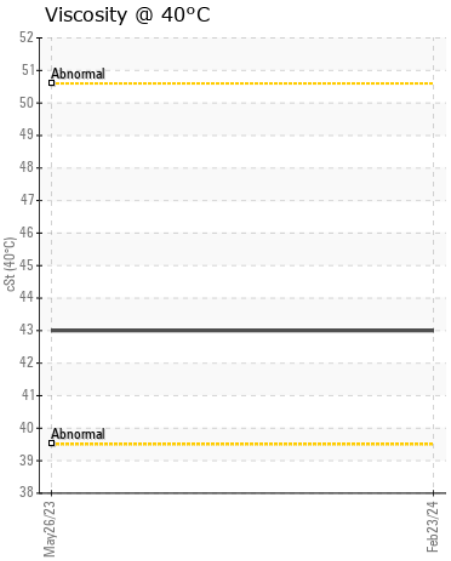
Ferrous Alloys



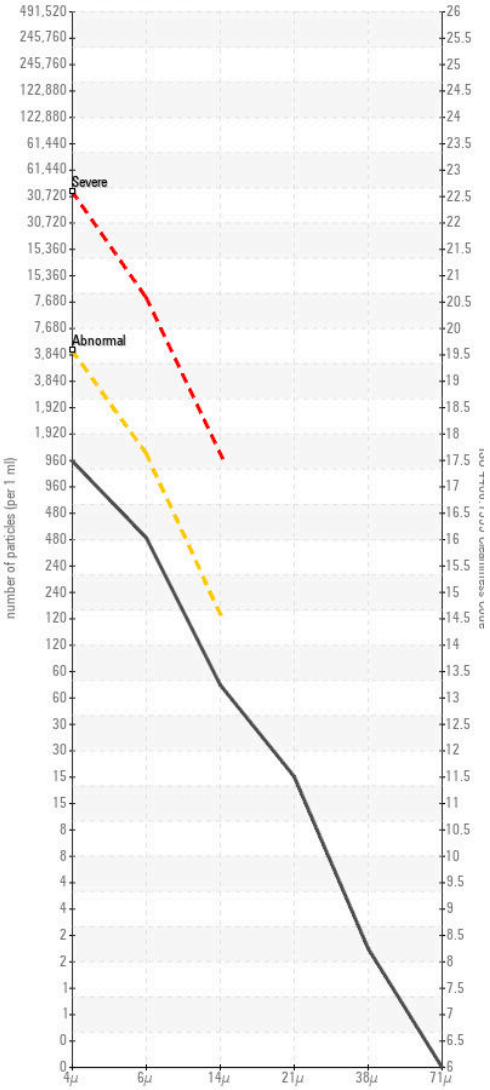
Non-ferrous Metals



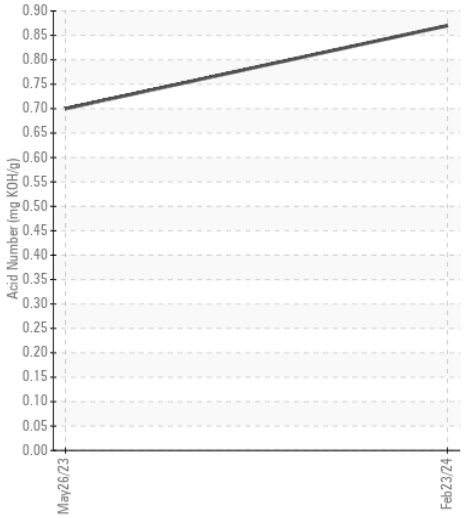
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0195371
Lab Number : 06123542
Unique Number : 10937693
Test Package : CONST (Additional Tests: PQ)

Received : 20 Mar 2024
Tested : 25 Mar 2024
Diagnosed : 25 Mar 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)

PATRIOT DEVELOPMENT CORP
22721 LADBROOK DRIVE STE 120
STERLING, VA
US 20166
Contact: ROBERT MOSS
robert.moss@patriotdev.net
T:
F: