James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
1FFDDP70CKF840647
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

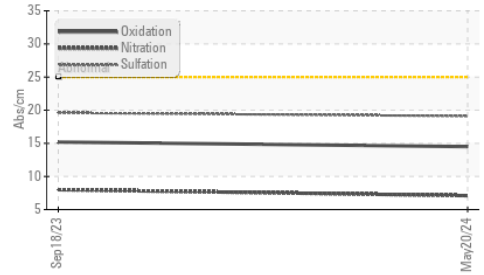
Sodium and/or potassium levels are high. Test for glycol is negative.

FLUID CONDITION

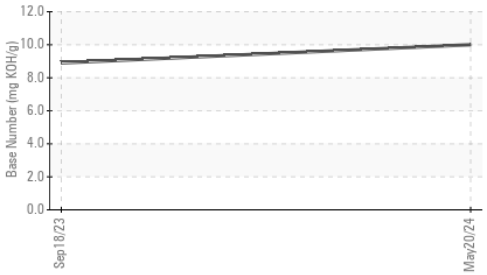
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0215667**	JR0188395	---
Sample Date		Client Info		**20 May 2024**	18 Sep 2023	---
Machine Age	hrs	Client Info		**4058**	2947	---
Oil Age	hrs	Client Info		**1111**	0	---
Filter Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**Changed**	Changed	---
Filter Changed		Client Info		**Changed**	Not Changd	---
Sample Status				**ATTENTION**	NORMAL	---
Iron	ppm	ASTM D5185m	>100	**4**	12	---
Chromium	ppm	ASTM D5185m	>20	**0**	<1	---
Nickel	ppm	ASTM D5185m	>4	**0**	0	---
Titanium	ppm	ASTM D5185m		**0**	<1	---
Silver	ppm	ASTM D5185m	>3	**0**	0	---
Aluminum	ppm	ASTM D5185m	>20	**2**	6	---
Lead	ppm	ASTM D5185m	>40	**0**	3	---
Copper	ppm	ASTM D5185m	>330	**2**	165	---
Tin	ppm	ASTM D5185m	>15	**0**	2	---
Vanadium	ppm	ASTM D5185m		**0**	<1	---
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Silicon	ppm	ASTM D5185m	>25	**6**	8	---
Potassium	ppm	ASTM D5185m	>20	**9**	0	---
Fuel		WC Method	>5	**<1.0**	<1.0	---
Water		WC Method	>0.2	**NEG**	NEG	---
Glycol	%	*ASTM D2982		**NEG**	NEG	---
Soot %	%	*ASTM D7844	>3	**0.2**	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	**7.1**	8.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**19.1**	19.6	---
Silt	scalar	*Visual	NONE	**NONE**	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	---
Sodium	ppm	ASTM D5185m		**101**	2	---
Boron	ppm	ASTM D5185m		**25**	12	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**84**	63	---
Manganese	ppm	ASTM D5185m		**0**	<1	---
Magnesium	ppm	ASTM D5185m		**1002**	977	---
Calcium	ppm	ASTM D5185m		**1174**	1332	---
Phosphorus	ppm	ASTM D5185m		**1048**	1076	---
Zinc	ppm	ASTM D5185m		**1286**	1326	---
Sulfur	ppm	ASTM D5185m		**3492**	4047	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	**14.5**	15.2	---
Base Number (BN)	mg KOH/g	ASTM D2896		**10.0**	8.9	---
Visc @ 100°C	cSt	ASTM D445		**13.1**	14.07	---

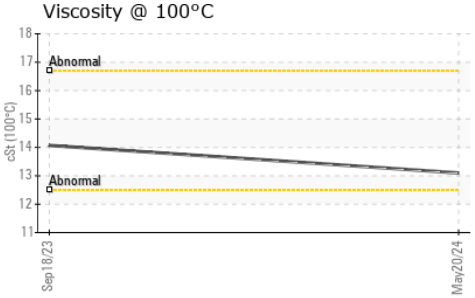
FT-IR (Direct Trend)



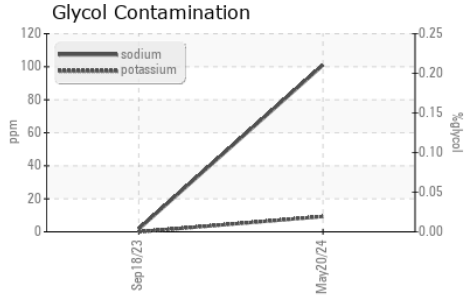
Base Number



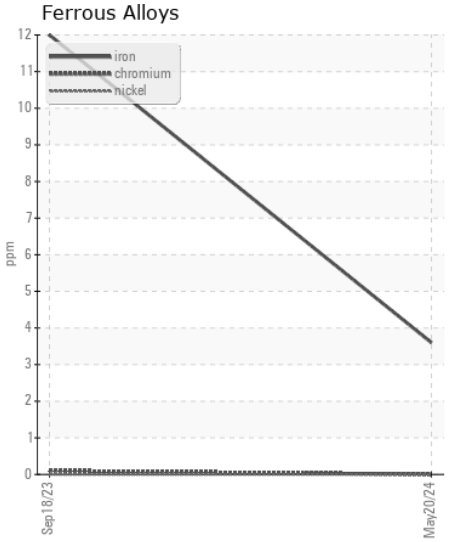
Viscosity @ 100°C



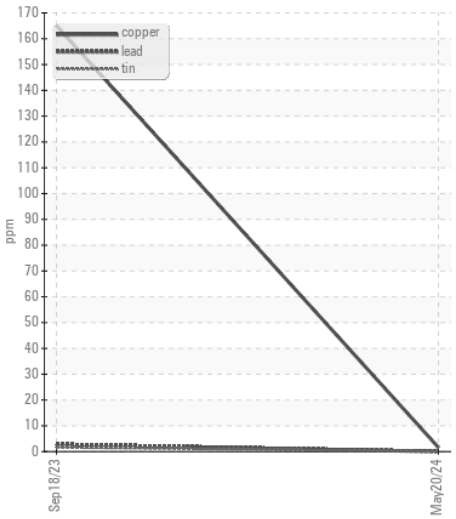
Glycol Contamination



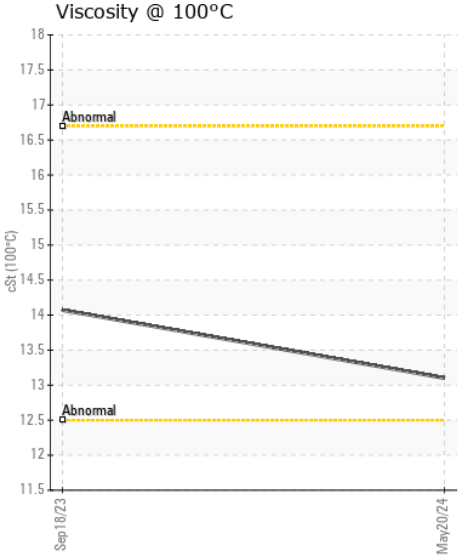
Ferrous Alloys



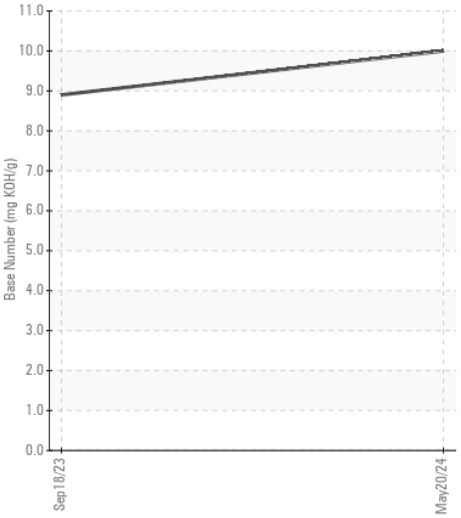
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215667
Lab Number : 06187446
Unique Number : 11044198
Test Package : CONST (Additional Tests: Glycol, TBN)

Received : 22 May 2024
Tested : 28 May 2024
Diagnosed : 28 May 2024 - Jonathan Hester

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)

JRE - CHARLOTTE
9550 STATESVILLE ROAD
CHARLOTTE, NC
US 28269
Contact: CHARLOTTE SHOP
myoung@jamesriverequipment.com
T: (704)597-0211
F: (704)596-6198