James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
JOHN DEERE 6068U PE6068U046877
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. 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

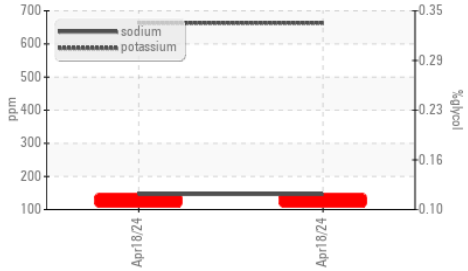
Sodium and/or potassium levels are high. Test for glycol is positive. There is a severe level of water present in the oil.

FLUID CONDITION

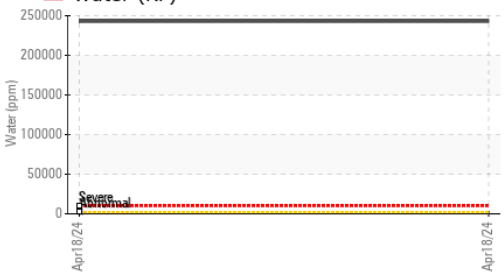
The oil is no longer serviceable due to the presence of contaminants. Unable to perform accurate viscosity or TBN tests due to water content.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0213489	---	---
Sample Date		Client Info		18 Apr 2024	---	---
Machine Age	hrs	Client Info		6228	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>51	16	---	---
Chromium	ppm	ASTM D5185m	>11	<1	---	---
Nickel	ppm	ASTM D5185m	>5	<1	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m	>3	0	---	---
Aluminum	ppm	ASTM D5185m	>31	3	---	---
Lead	ppm	ASTM D5185m	>26	3	---	---
Copper	ppm	ASTM D5185m	>26	3	---	---
Tin	ppm	ASTM D5185m	>4	5	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>22	11	---	---
Potassium	ppm	ASTM D5185m	>20	▲ 663	---	---
Fuel		WC Method	>2.1	<1.0	---	---
Water	%	ASTM D6304	>0.21	▲ 24.3	---	---
ppm Water	ppm	ASTM D6304	>2100	▲ 243000	---	---
Glycol	%	*ASTM D2982		▲ 0.12	---	---
Soot %	%	*ASTM D7844	>3	1.1	---	---
Nitration	Abs/cm	*ASTM D7624	>20	83.7	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	0.0	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.21	▲ 0.2%	---	---
Sodium	ppm	ASTM D5185m	>31	▲ 146	---	---
Boron	ppm	ASTM D5185m		67	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		66	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		105	---	---
Calcium	ppm	ASTM D5185m		1307	---	---
Phosphorus	ppm	ASTM D5185m		719	---	---
Zinc	ppm	ASTM D5185m		862	---	---
Sulfur	ppm	ASTM D5185m		3279	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	73.0	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		73.6	---	---
Visc @ 100°C	cSt	ASTM D445		98.9	---	---

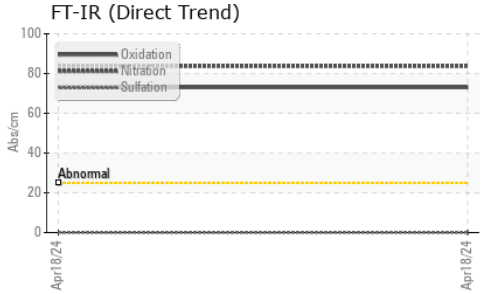
Glycol Contamination



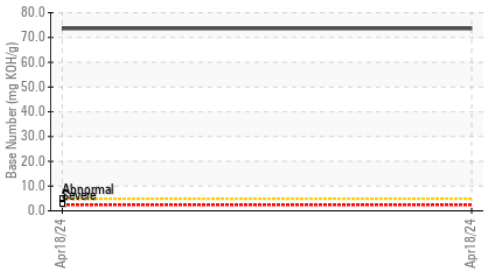
Water (KF)



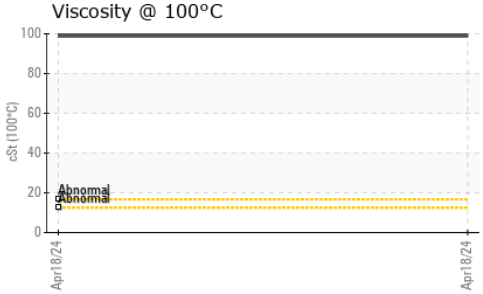
FT-IR (Direct Trend)



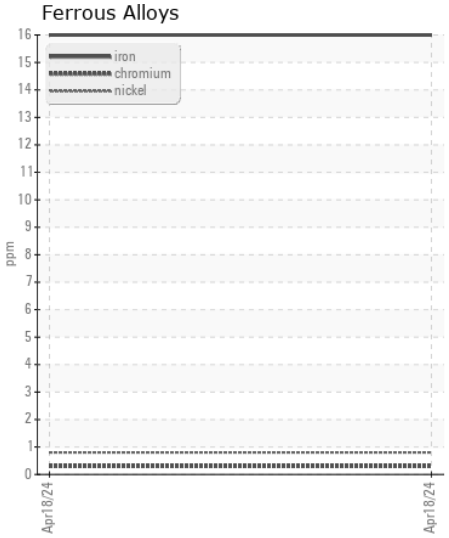
Base Number



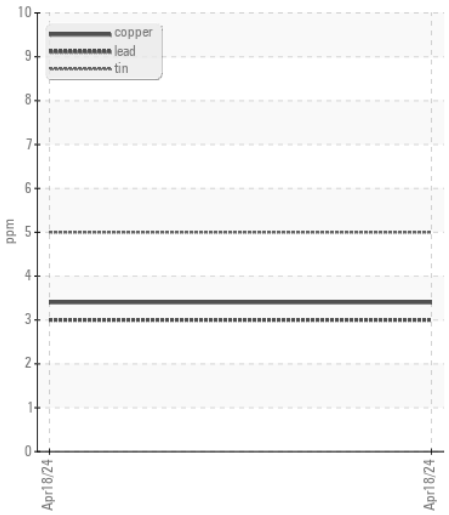
Viscosity @ 100°C



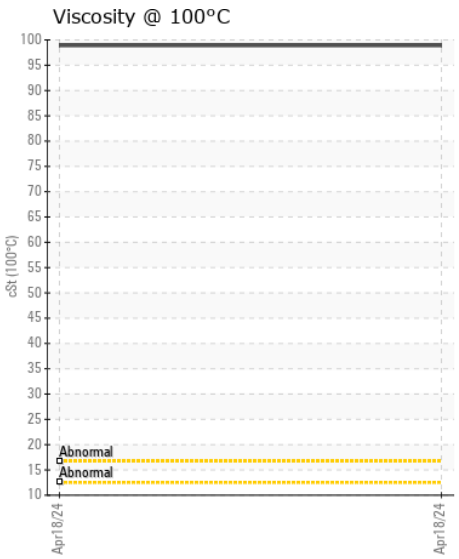
Ferrous Alloys



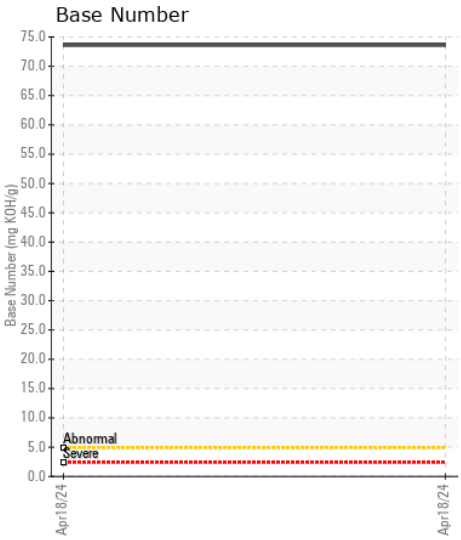
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0213489 **Received** : 19 Apr 2024
Lab Number : 06154155 **Tested** : 23 Apr 2024
Unique Number : 10989578 **Diagnosed** : 23 Apr 2024 - Don Baldridge
Test Package : CONST (Additional Tests: Glycol, KF, TBN)

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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