James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
WIRTGEN W50R 1505-0209
Component
Hydraulic System
Fluid
WIRTGEN GROUP HYDRAULIC OIL HVLP 46 (--- GAL)

RECOMMENDATION

The 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.

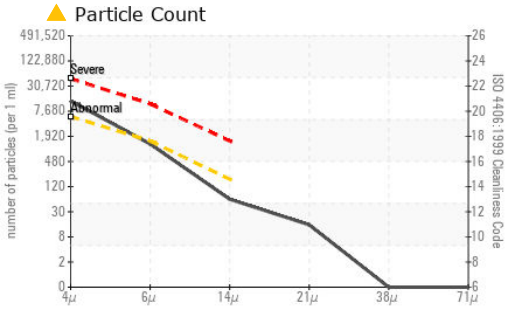
CONTAMINATION

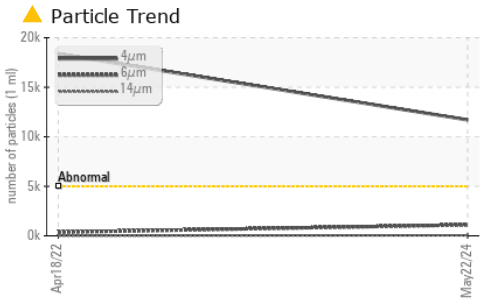
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

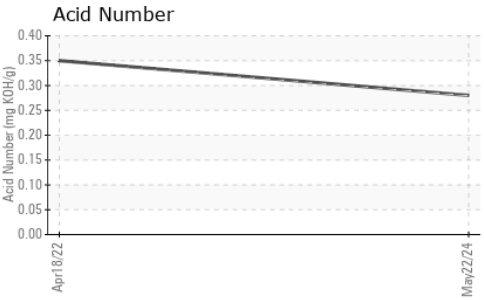
FLUID CONDITION

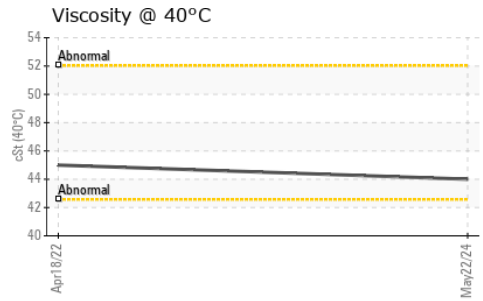
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

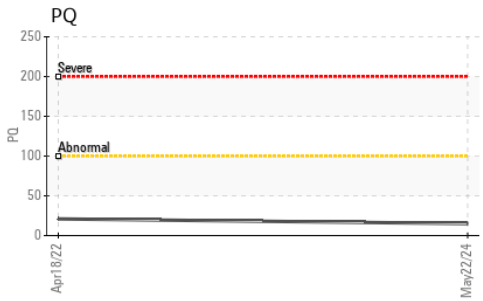
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0199616	JR0124243	---
Sample Date		Client Info		22 May 2024	18 Apr 2022	---
Machine Age	hrs	Client Info		1161	476	---
Oil Age	hrs	Client Info		1161	476	---
Filter Age	hrs	Client Info		0	400	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---
PQ		ASTM D8184		15	21	---
Iron	ppm	ASTM D5185m	>20	5	4	---
Chromium	ppm	ASTM D5185m	>10	<1	0	---
Nickel	ppm	ASTM D5185m	>10	<1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		1	<1	---
Aluminum	ppm	ASTM D5185m	>10	1	<1	---
Lead	ppm	ASTM D5185m	>10	2	1	---
Copper	ppm	ASTM D5185m	>75	7	5	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	2	<1	---
Potassium	ppm	ASTM D5185m	>20	<1	1	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 11704	▲ 18366	---
Particles >6µm		ASTM D7647	>1300	1107	362	---
Particles >14µm		ASTM D7647	>160	53	17	---
Particles >21µm		ASTM D7647	>40	13	6	---
Particles >38µm		ASTM D7647	>10	0	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/17/13	▲ 21/16/11	---
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	>0.1	NEG	NEG	---
Sodium	ppm	ASTM D5185m		0	0	---
Boron	ppm	ASTM D5185m		0	<1	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		<1	<1	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		8	8	---
Calcium	ppm	ASTM D5185m		18	28	---
Phosphorus	ppm	ASTM D5185m		235	203	---
Zinc	ppm	ASTM D5185m		248	252	---
Sulfur	ppm	ASTM D5185m		6239	4346	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.28	0.35	---
Visc @ 40°C	cSt	ASTM D445		44.0	45.0	---

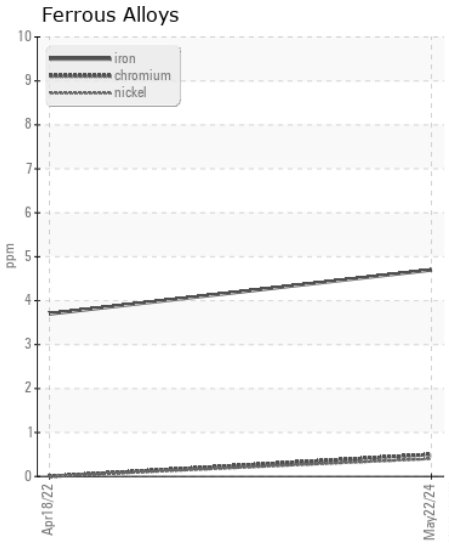


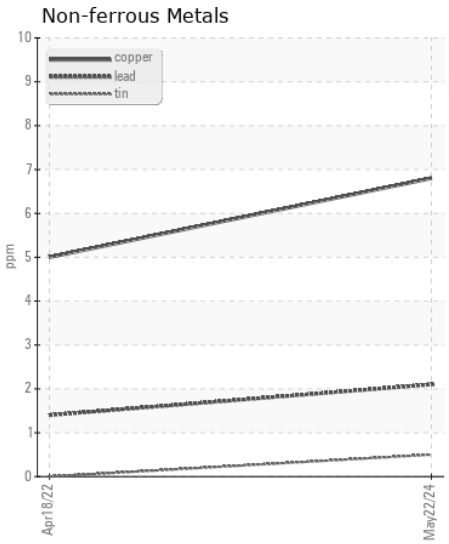


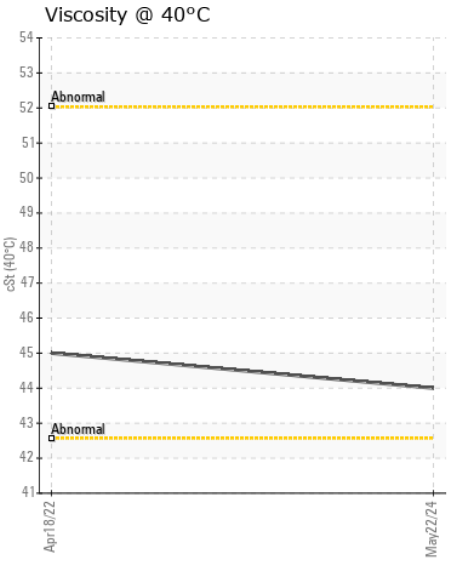


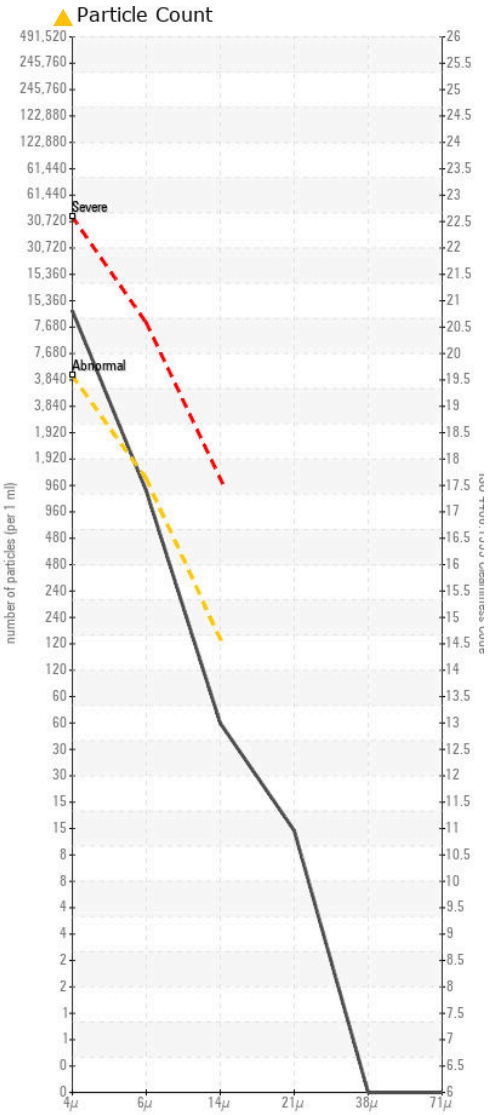


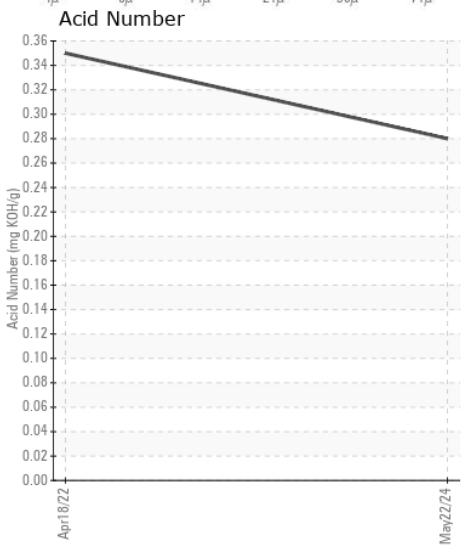












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0199616
Lab Number : 06194599
Unique Number : 11056722
Test Package : CONST (Additional Tests: PQ, PrtCount)

Received : 29 May 2024
Tested : 30 May 2024
Diagnosed : 30 May 2024 - Wes Davis

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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