CONST

James River Equipment

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[W67961]
Machine Id
SAKIA SW880 4SW65-20124
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (20 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample. (Customer Sample Comment: W67961)

WEAR

High concentration of visible metal present. All component wear rates are normal.

CONTAMINATION

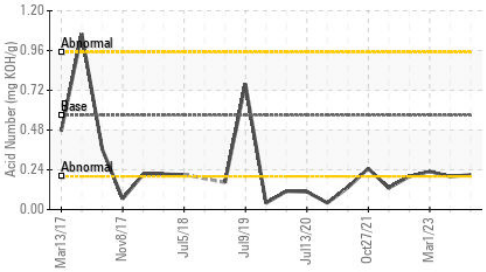
There is no indication of any contamination in the oil.

FLUID CONDITION

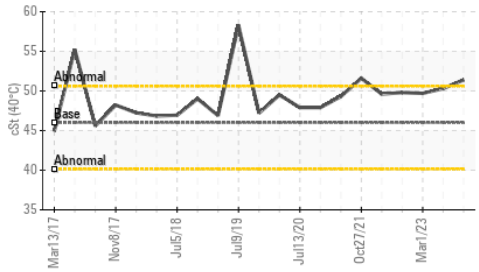
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0205751	JR0182844	JR0156045
Sample Date		Client Info		20 Jun 2024	31 Aug 2023	01 Mar 2023
Machine Age	hrs	Client Info		4658	1987	1670
Oil Age	hrs	Client Info		2482	0	500
Filter Age	hrs	Client Info		0	0	500
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
PQ		ASTM D8184		18	11	11
Iron	ppm	ASTM D5185m	>20	4	3	4
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	<1	1	0
Copper	ppm	ASTM D5185m	>75	13	13	10
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	▲ HEAVY	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	1	<1	1
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	---	● 7669	▲ 23381
Particles >6µm		ASTM D7647	>1300	---	● 1436	▲ 6855
Particles >14µm		ASTM D7647	>160	---	53	▲ 604
Particles >21µm		ASTM D7647	>40	---	12	▲ 151
Particles >38µm		ASTM D7647	>10	---	1	5
Particles >71µm		ASTM D7647	>3	---	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	---	● 20/18/13	▲ 22/20/16
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		2	0	0
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	2	0
Molybdenum	ppm	ASTM D5185m	5	0	1	1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	25	6	9	11
Calcium	ppm	ASTM D5185m	200	47	47	50
Phosphorus	ppm	ASTM D5185m	300	542	505	482
Zinc	ppm	ASTM D5185m	370	120	94	89
Sulfur	ppm	ASTM D5185m	2500	1436	1114	853
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.21	0.20	0.23
Visc @ 40°C	cSt	ASTM D445	46	51.4	50.3	49.7

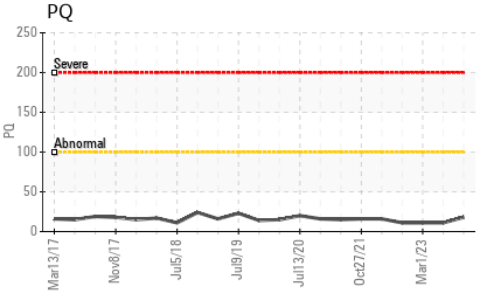
Acid Number



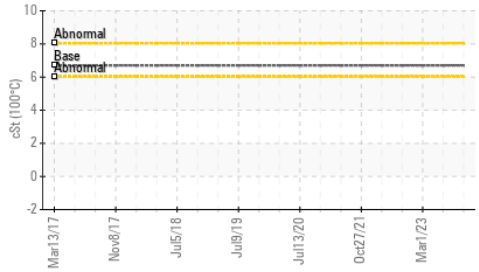
Viscosity @ 40°C



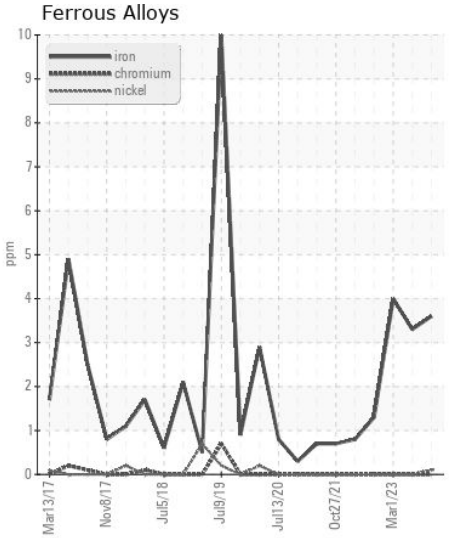
PQ



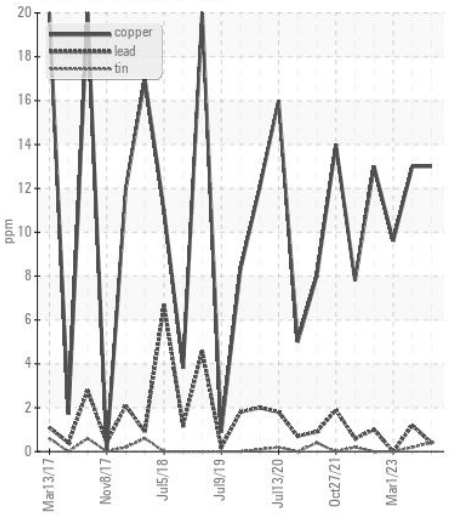
Viscosity @ 100°C



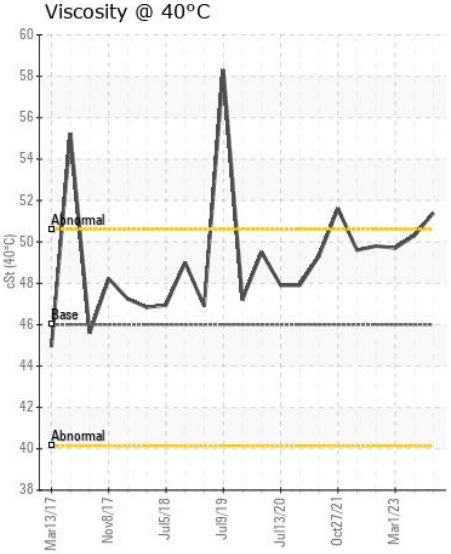
Ferrous Alloys



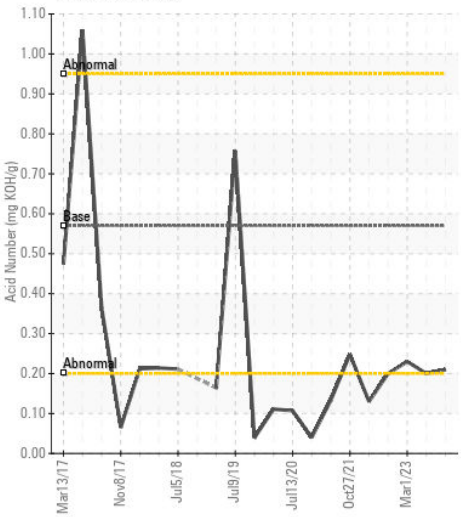
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0205751
Lab Number : 06218070
Unique Number : 11096267
Test Package : CONST (Additional Tests: FT-IR, KV100, PQ)

Received : 24 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 25 Jun 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)

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