



WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
SAKAI VSV16-50707

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 46 (--- QTS)

RECOMMENDATION

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

WEAR

All component wear rates are normal.

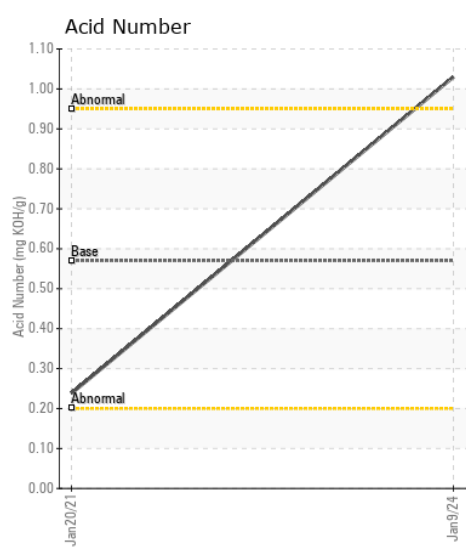
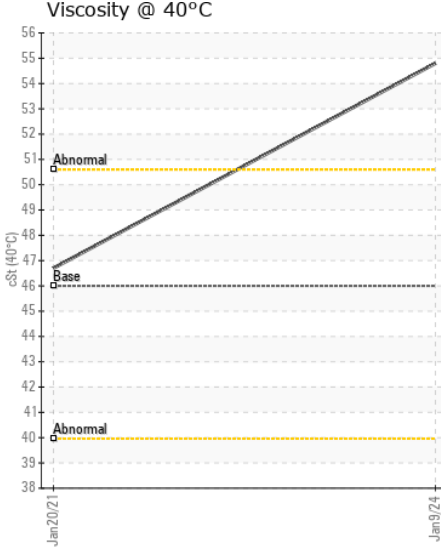
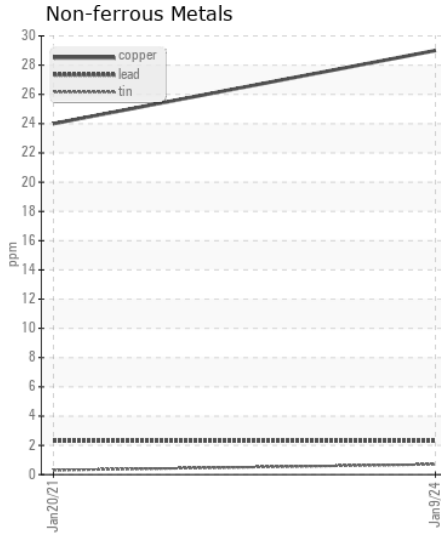
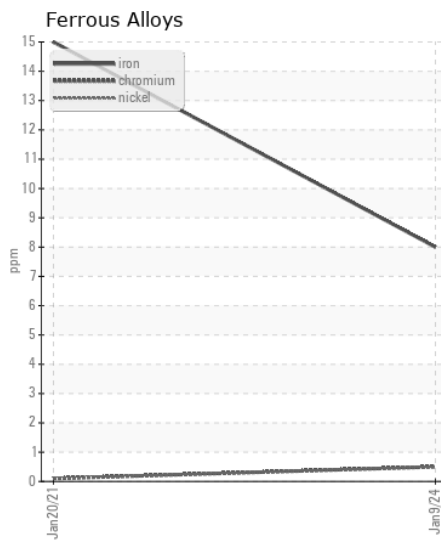
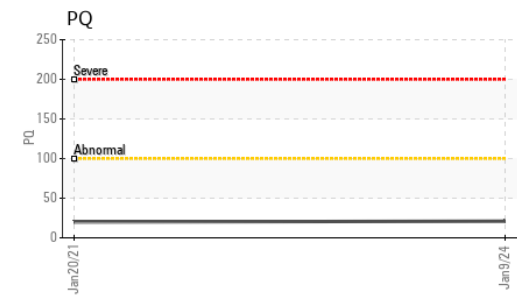
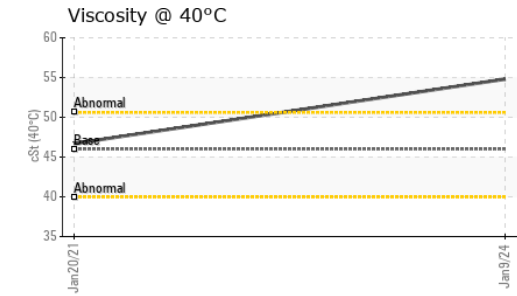
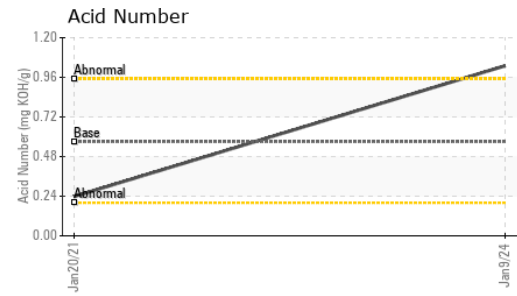
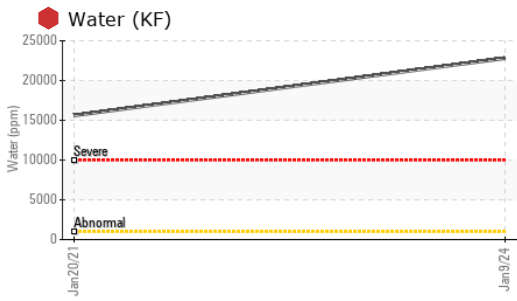
CONTAMINATION

Appearance is layered. There is a moderate amount of visible silt present in the sample. There is a high concentration of water present in the oil. Excessive free water present.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0179661	JR0076392	---
Sample Date		Client Info		09 Jan 2024	20 Jan 2021	---
Machine Age	hrs	Client Info		1933	1335	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				SEVERE	SEVERE	---
PQ		ASTM D8184		21	20	---
Iron	ppm	ASTM D5185m	>20	8	15	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>10	2	<1	---
Lead	ppm	ASTM D5185m	>10	2	2	---
Copper	ppm	ASTM D5185m	>75	29	24	---
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	13	3	---
Potassium	ppm	ASTM D5185m	>20	4	<1	---
Water	%	ASTM D6304	>0.1	2.28	1.56	---
ppm Water	ppm	ASTM D6304	>1000	22800	15600	---
Particles >4µm		ASTM D7647	>5000	---	2904	---
Particles >6µm		ASTM D7647	>1300	---	1582	---
Particles >14µm		ASTM D7647	>160	---	269	---
Particles >21µm		ASTM D7647	>40	---	91	---
Particles >38µm		ASTM D7647	>10	---	14	---
Particles >71µm		ASTM D7647	>3	---	1	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	---	19/18/15	---
Silt	scalar	*Visual	NONE	MODER	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	LAYRD	MILKY	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	0.2%	---
Sodium	ppm	ASTM D5185m		154	4	---
Boron	ppm	ASTM D5185m	5	76	8	---
Barium	ppm	ASTM D5185m	5	0	0	---
Molybdenum	ppm	ASTM D5185m	5	5	<1	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	25	12	9	---
Calcium	ppm	ASTM D5185m	200	936	103	---
Phosphorus	ppm	ASTM D5185m	300	748	317	---
Zinc	ppm	ASTM D5185m	370	760	266	---
Sulfur	ppm	ASTM D5185m	2500	3627	4350	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	1.03	0.238	---
Visc @ 40°C	cSt	ASTM D445	46	54.8	46.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0179661 **Received** : 11 Jan 2024
Lab Number : 06058000 **Diagnosed** : 12 Jan 2024
Unique Number : 10829382 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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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