

OIL ANALYSIS REPORT

NISSEI B-00 (S/N S22212017K1) Component

Hydraulic System AW HYDRAULIC OIL ISO 46 (164 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

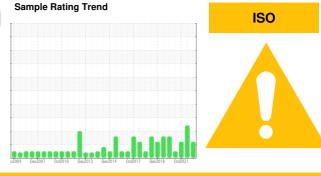
All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

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.



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0819531	WC0768473	WC0477510
Sample Date		Client Info		17 Jan 2024	23 Jan 2023	02 Oct 2021
Machine Age	yrs	Client Info		0	0	0
Oil Age	yrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	<1	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	<1	<1	<1
Copper	ppm	ASTM D5185m	>20	9	9	9
	ppm	ASTM D5185m	>20	<1	<1	2
Antimony	ppm	ASTM D5185m				4
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	6	9	8
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
-	ppm	ASTM D5185m	25	6	3	3
Calcium	ppm	ASTM D5185m	200	48	46	47
Phosphorus	ppm	ASTM D5185m	300	324	287	319
Zinc	ppm	ASTM D5185m	370	352	333	342
Sulfur	ppm	ASTM D5185m	2500	1400	1359	1402
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	1
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	2
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	3733	▲ 30580	9297
Particles >6µm		ASTM D7647	>320	<u> </u>	1 3399	A 2688
Particles >14µm		ASTM D7647	>80	40	4 41	9 3
Particles >21µm		ASTM D7647	>20	7	1 02	17

ASTM D7647 >4

ASTM D7647 >3

Particles >38µm

Particles >71µm

Oil Cleanliness

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ISO 4406 (c) >18/15/13 A 19/17/12

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▲ 22/21/16

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▲ 20/19/14



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Dec10/04

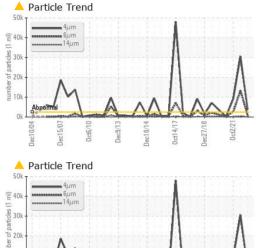
Abnorma 40

Dec15/07

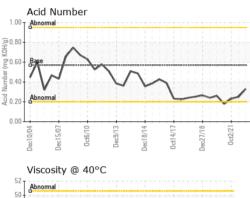
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Dec9/13

OIL ANALYSIS REPORT



FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.33	0.25	0.231
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	45.7	45.8	46.3
SAMPLE IMAGES	6	method	limit/base	current	history1	history2



Oct14/1

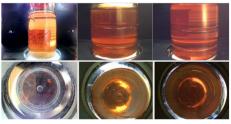
TC24

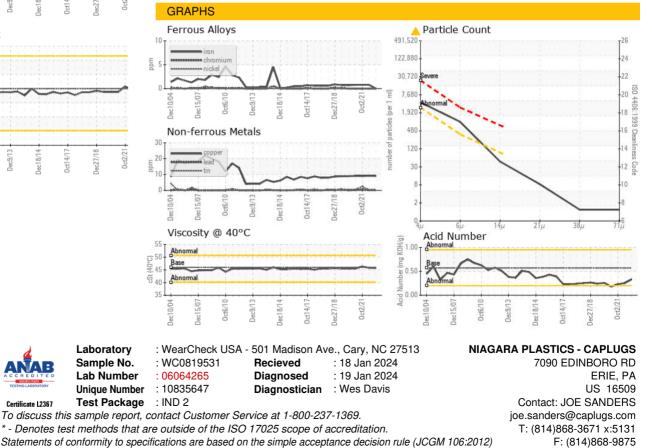
Color

Bottom

Det6/1

IES	method	limit/base	current	his
cSt	ASTM D445	46	45.7	45.8
S	method	limit/base	current	his





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: JOE SANDERS