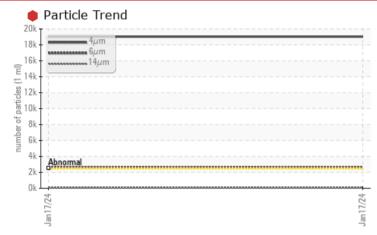


# **PROBLEM SUMMARY**

# NISSEI B-10 - S22221044K1

Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (--- GAL)

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

## PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	 
Particles >4µm	ASTM D7647	>2500	<b>A</b> 19027	 
Particles >6µm	ASTM D7647	>320	<b>e</b> 2663	 
Oil Cleanliness	ISO 4406 (c)	>18/15/13	<b>e</b> 21/19/13	 

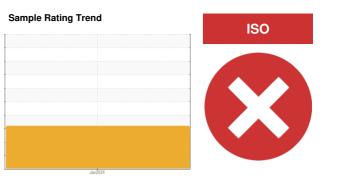
Customer Id: NIAERI Sample No.: WC0819568 Lab Number: 06064253 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com



RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Change Filter			?	We recommend you service the filters on this component.	
Resample			?	Resample in 30-45 days to monitor this situation.	
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.	
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.	
Check Seals			?	Check seals and/or filters for points of contaminant entry.	

## HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

## Machine Id NISSEI B-10 - S22221044K1

Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (--- GAL)

### DIAGNOSIS

#### Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. 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 high amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness code is much higher than 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.

		-				
		L		Jan2024		
SAMPLE INFC	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0819568		
Sample Date		Client Info		17 Jan 2024		
Machine Age	yrs	Client Info		0		
Oil Age	yrs	Client Info		0		
Oil Changed	J -	Client Info		N/A		
Sample Status				SEVERE		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	3		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	0		
Lead	ppm	ASTM D5185m	>20	0		
Copper	ppm	ASTM D5185m	>20	3		
Tin	ppm	ASTM D5185m	>20	۲ ۲		
Vanadium	ppm	ASTM D5185m	220	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	25	3		
Calcium	ppm	ASTM D5185m	200	28		
Phosphorus	ppm	ASTM D5185m	300	444		
Zinc	ppm	ASTM D5185m	370	580		
Sulfur	ppm	ASTM D5185m	2500	1473		
CONTAMINAN		method	limit/base	current	history1	history2
Silicon		ASTM D5185m				
Sodium	ppm	ASTM D5185m	>15	<1 0		
Potassium	ppm ppm	ASTM D5185m	>20	0		
FLUID CLEAN		method	limit/base	current	history1	history2
		ASTM D7647	>2500			
Particles >4µm Particles >6µm				A 19027		
		ASTM D7647	>320	2663		
Particles >14µm		ASTM D7647	>80	57		
Particles >21µm		ASTM D7647	>20	9		
Particles >38µm		ASTM D7647	>4	2		
Particles >71µm Oil Cleanliness		ASTM D7647	>3	2		
		ISO 4406 (c)	>18/15/13	21/19/13		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN	l) mg KOH/g	ASTM D8045	0.57	0.65		

Acid Number (AN) mg K Report Id: NIAERI [WUSCAR] 06064253 (Generated: 01/20/2024 01:16:26) Rev: 1

Contact/Location: JOE SANDERS - NIAERI



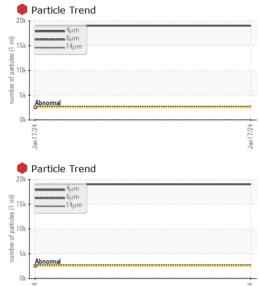
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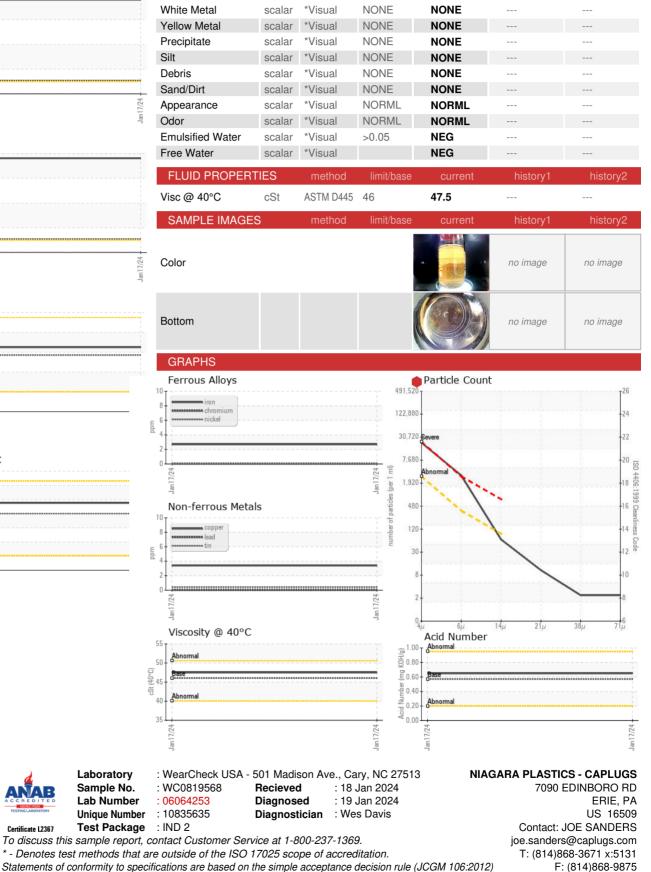
1.00

Acid Number

# **OIL ANALYSIS REPORT**

VISUAL





0.8 ₽0.6 Ê 0.40 Pio 0.20 A 0.00 LE Viscosity @ 40°C 52 50 48 () 46 Base to 44 47 Abnorm 40 38 Jan17/24

Report Id: NIAERI [WUSCAR] 06064253 (Generated: 01/20/2024 01:16:26) Rev: 1

Certificate L2367

Contact/Location: JOE SANDERS - NIAERI