

# **OIL ANALYSIS REPORT**

Sample Rating Trend



# NISSEI A-13 (S/N S13610041K1)

**Hydraulic System** 

**AW HYDRAULIC OIL ISO 46 (248 GAL)** 

## **DIAGNOSIS**

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil.

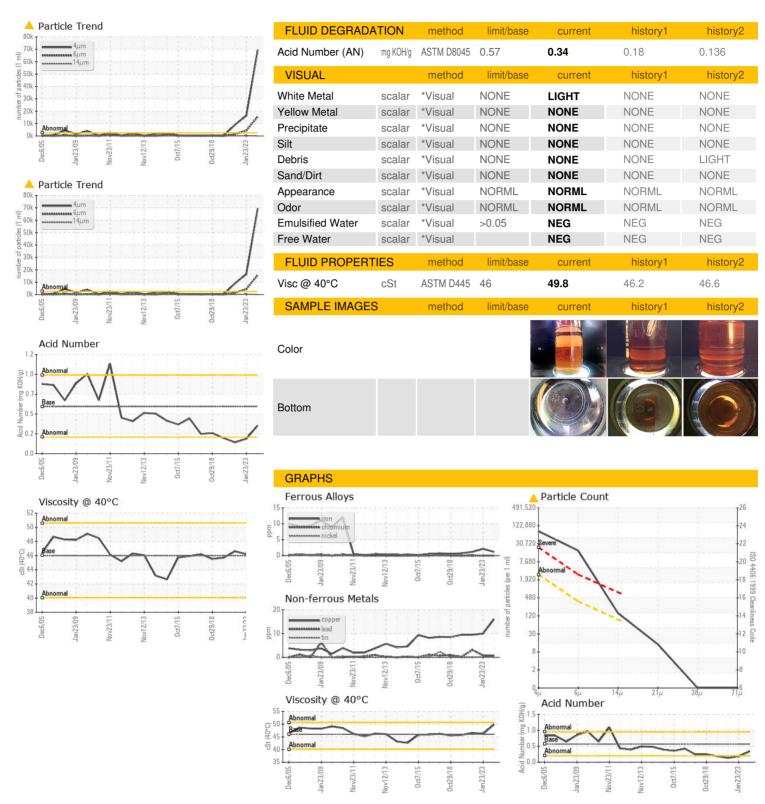
### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		ec2005 Ja	n2009 Nov2011 No	v2013 Oct2015 Oct2018	Jan 2023	
SAMPLE INFORM	<u>ΛΔΤΙΩΝ</u>	method	limit/base	current	history1	history2
	/// (TIOI)		III III Dasc			
Sample Number		Client Info		WC0819570	WC0736370	WC0477518
Sample Date		Client Info		17 Jan 2024	23 Jan 2023	03 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	V	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	1	2	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	3
Copper	ppm	ASTM D5185m	>20	16	10	10
Tin	ppm	ASTM D5185m	>20	<1	<1	0
Antimony	ppm	ASTM D5185m				0
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	5	8	8
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	25	28	32	35
Calcium	ppm	ASTM D5185m	200	100	112	119
Phosphorus	ppm	ASTM D5185m	300	336	295	328
Zinc	ppm	ASTM D5185m	370	358	329	342
Sulfur	ppm	ASTM D5185m	2500	1592	1636	1589
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	2
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>69319</b>	<b>▲</b> 16377	<b>▲</b> 8995
Particles >6µm		ASTM D7647	>320	<u> </u>	<b>4441</b>	<u>▲</u> 1366
Particles >14µm		ASTM D7647	>80	<b>130</b>	<u>\$\text{253}\$</u>	<u> </u>
Particles >21µm		ASTM D7647	>20	12	<b>▲</b> 82	<b>4</b> 0
Particles >38µm		ASTM D7647	>4	0	<u>^</u> 7	<u>\$</u> 5
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15/13	<b>23/21/14</b>	<u>^</u> 21/19/15	<u>^</u> 20/18/15



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Laboratory

Sample No. Lab Number

**Unique Number** Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0819570 : 06064268 : 10835650

Diagnosed Diagnostician

Recieved : 18 Jan 2024 : 21 Jan 2024 : Don Baldridge

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)

**NIAGARA PLASTICS - CAPLUGS** 

7090 EDINBORO RD ERIE, PA

US 16509 Contact: JOE SANDERS joe.sanders@caplugs.com T: (814)868-3671 x:5131

F: (814)868-9875