

### **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# NISSEI PRESS 27 (S/N S28T107)

Hydraulic System

AW HYDRAULIC OIL ISO 46 (214 GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

#### Fluid Condition

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

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0884790	WC0768431	WC0534557
Sample Date		Client Info		19 Jan 2024	05 Jan 2023	21 Mar 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	NC	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	5	7	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	2	<1	2
Copper	ppm	ASTM D5185m	>20	15	14	14
Tin	ppm	ASTM D5185m	>20	<1	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Codmium	nnm	ACTM DE185m		0	0	0
Gaumum	ppiii	ASTIVI DSTOSIII		U	0	0
ADDITIVES	ррпі	method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base 5	current	history1	history2
ADDITIVES Boron Barium	ppm ppm	Method ASTM D5185m ASTM D5185m	limit/base 5 5	Current 0 0	history1 0 0	history2 <1 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 5 5 5	Current 0 0 0	history1 0 0 <1	<pre>history2 &lt;1 0 0 0</pre>
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 5 5 5	Current 0 0 0 <1	0 history1 0 0 <1 <1	<pre>     history2     &lt;1     0     0     &lt;1     </pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 5 5 5 25	Current 0 0 0 <1 4	0 history1 0 0 <1 <1 2	<pre>     history2     &lt;1     0     0     &lt;1     3 </pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 5 5 5 25 200	Current 0 0 0 <1 4 9	0 history1 0 0 <1 <1 2 67	<pre>     history2     &lt;1     0     0     &lt;1     3     72 </pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 5 5 5 25 200 300	Current 0 0 0 <1 4 9 286	0 history1 0 <1 <1 2 67 376	<pre>     history2     &lt;1     0     0     &lt;1     3     72     403 </pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 5 5 5 25 200 300 370	Current 0 0 0 <1 4 9 286 352	history1           0	<pre>     history2     &lt;1     0     0     &lt;1     3     72     403     459     1</pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 5 5 5 25 200 300 370 2500	Current 0 0 0 <1 4 9 286 352 1287	history1           0           0           <1           <1           2           67           376           405           1626	<pre>     history2     &lt;1     0     0     &lt;1     3     72     403     459     1231 </pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base 5 5 5 25 200 300 370 2500 limit/base	Current C Current C C Current C C Current C C C C C C C C C C C C C C C C C C C	bistory1           0	<pre>     history2     &lt;1     0     0     &lt;1     3     72     403     459     1231     history2 </pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b>	limit/base 5 5 5 25 200 300 370 2500 limit/base >15	Current 0 0 0 <1 4 9 286 352 1287 287 287 0	history1         0         0         <1         <1         2         67         376         405         1626         history1         <1	<pre>     history2     &lt;1     0     0     &lt;1     3     72     403     459     1231     history2     &lt;1 </pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base 5 5 25 200 300 370 2500 limit/base >15	Current Current C CURCURCURCURCURCURCURCURCURCURCURCURCURC	history1         0         0         <1         <1         2         67         376         405         1626         history1         <1         1	<pre>     history2     &lt;1     0     0     &lt;1     3     72     403     459     1231     history2     &lt;1     0 </pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base 5 5 5 25 200 300 370 2500 limit/base >15 >20	Current Current C C	history1         0         0         <1         <1         2         67         376         405         1626         history1         <1         1         0	<pre>     history2     &lt;1     0     0     &lt;1     3     72     403     459     1231     history2     &lt;1     0     2 </pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium FLUID CLEANL	ppm       ppm	ASTM D5185m ASTM D5185m	limit/base 5 5 5 25 200 300 370 2500 limit/base >20 limit/base	Current Current C Current	history1         0         0         <1         2         67         376         405         1626         history1         <1         1         0         history1	<pre>     history2     &lt;1     0     0     &lt;1     3     72     403     459     1231     history2     &lt;1     0     2     history2 </pre>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium FLUID CLEANL Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base 5 5 25 200 300 370 2500 limit/base >20 limit/base	0         0         0         0         0         01         02         286         352         1287         current         0	0         0         0         <1         2         67         376         405         1626         history1         <1         1         0         history1         <1         405         1626         history1         <1         4375	<ul> <li>history2</li> <li>&lt;1</li> <li>0</li> <li>0</li> <li>&lt;1</li> <li>3</li> <li>72</li> <li>403</li> <li>459</li> <li>1231</li> <li>history2</li> <li>&lt;1</li> <li>0</li> <li>2</li> <li>history2</li> <li>9868</li> </ul>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base 5 5 5 25 200 300 370 2500 limit/base >20 limit/base >20	0         0         0         0         0         0         286         352         1287         current         0      <	history1         0         -         -         2         67         376         405         1626         history1         <1         1         0         history1         4375         239	<ul> <li>history2</li> <li>&lt;1</li> <li>0</li> <li>&lt;1</li> <li>3</li> <li>72</li> <li>403</li> <li>459</li> <li>1231</li> <li>history2</li> <li>&lt;1</li> <li>0</li> <li>2</li> <li>history2</li> <li>9868</li> <li>926</li> </ul>
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM DS103000           method           ASTM D518500	limit/base 5 5 5 200 300 370 2500 limit/base >15 20 limit/base >20	0           0           0           0           0           286           352           1287           0<	history1         0         -	history2 <1 0 <1 0 <1 3 72 403 459 1231 history2 <1 0 2 history2 9868 926 43
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m           ASTM D7647           ASTM D7647           ASTM D7647           ASTM D7647           ASTM D7647           ASTM D7647	limit/base 5 5 5 5 20 25 200 300 370 2500 limit/base >20 limit/base >15 >20 limit/base >1300 >160 >40	0           0           0           0           0              4           9           286           352           1287           ourrent           0           0              0           0              0           0           0           0           0           0           0           0           50           16	0         0         0         <1         <1         2         67         376         405         1626         history1         <1         1         0         history1         4375         239         15         3	bistory2 <1 0 <1 0 <1 3 72 403 459 1231 bistory2 <1 0 2 bistory2 9868 926 43 6
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT Silicon Sodium Potassium FLUID CLEANL Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m           ASTM D7647           ASTM D7647           ASTM D7647           ASTM D7647           ASTM D7647	limit/base 5 5 5 20 200 300 370 2500 limit/base >15 >20 limit/base >1300 >160 >40 >10	0           0           0           0           0           286           352           1287           0           0           0           286           352           1287           0           0           0           0           0           0           0           0           0           0           0           0           0           1           current           9695           607           50           16           0	0         0         0         <1         <1         2         67         376         405         1626         history1         <1         1         0         history1         4375         239         15         3         0	<ul> <li>history2</li> <li>&lt;1</li> <li>0</li> <li>&lt;1</li> <li>3</li> <li>72</li> <li>403</li> <li>459</li> <li>1231</li> <li>history2</li> <li>&lt;1</li> <li>0</li> <li>2</li> <li>history2</li> <li>9868</li> <li>926</li> <li>43</li> <li>6</li> <li>0</li> </ul>

ISO 4406 (c) >--/17/14

**Oil Cleanliness** 

19/15/11

20/17/13

20/16/13



## **OIL ANALYSIS REPORT**









FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.28	0.31	0.29
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	45.2	44.9	44.7
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color

Bottom



Ferrous Alloys Particle Count 10 491,520 122,880 30,720 ISO 4406:1999 Cle -20 Jan 19/24 7.680 Mar21/22 /av18/12 Jan 15/19 Mav16/01 Mav15/07 VIav3/05 (per 1 Mav21 1,920 18 480 16 Non-ferrous Metals 120 14 10 30 12 8 May15/07 Mav16/01 Aav71/04 Mav3/09 Aar21/22 an 19/74 lan 15/1 Aav18/1 210 Viscosity @ 40°C Acid Number KOH/g) 55 T 1 00 Abnor Abno () 50 0+ 45 oer (mg Ba 0.50 충 <sub>40</sub>. Ab Acid Nu 35 0.00 Jan19/24 -Jan 15/19 Jan 19/24 Mar21/22 May21/04 Mav3/09 Mar21/22 Mav16/01 Mav21/04 May15/07 Aav3/09 Mav16/01 May15/07 May18/12 Mav18/12 Jan 15/19



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