



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**HITACHI 300 732218**

Component  
**Diesel Engine**

Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0182833</b>	JR0187264	JR0174339
Sample Date		Client Info		<b>08 Jan 2024</b>	26 Sep 2023	04 Jun 2023
Machine Age	hrs	Client Info		<b>1484</b>	971	458
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>25</b>	38	57
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>4	<b>2</b>	2	3
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185m	>330	<b>17</b>	54	295
Tin	ppm	ASTM D5185m	>15	<b>2</b>	2	3
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

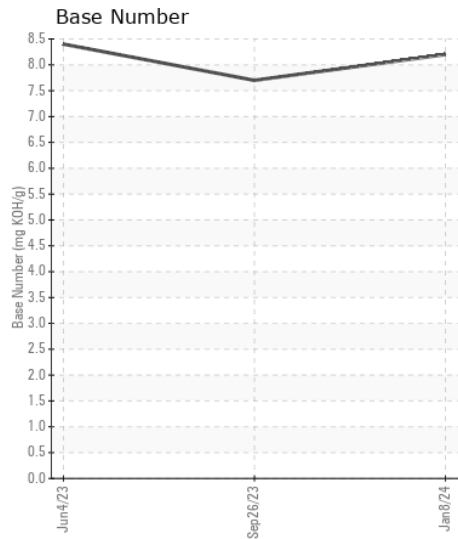
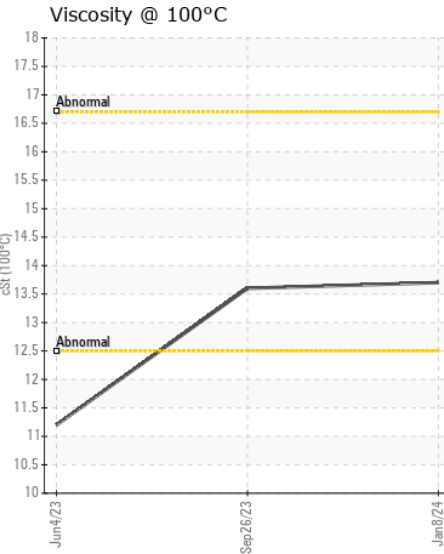
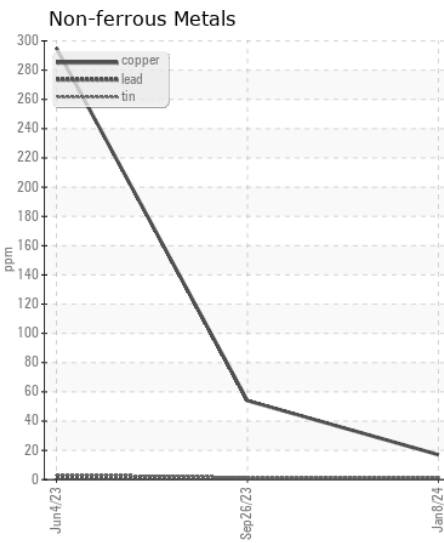
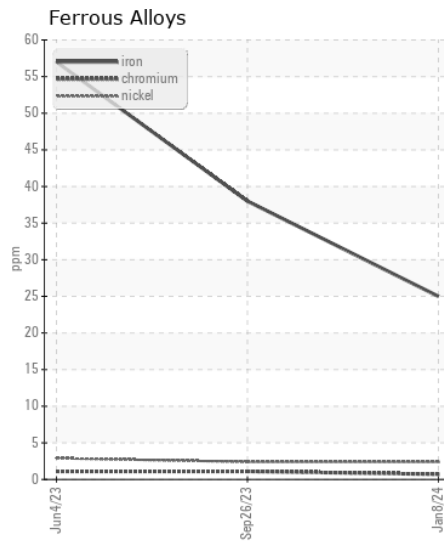
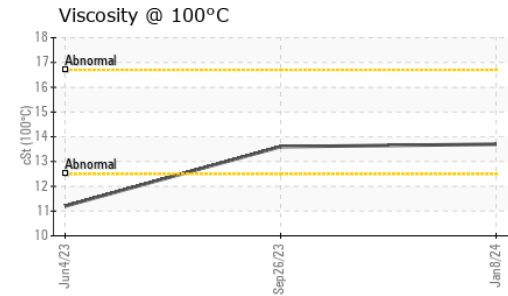
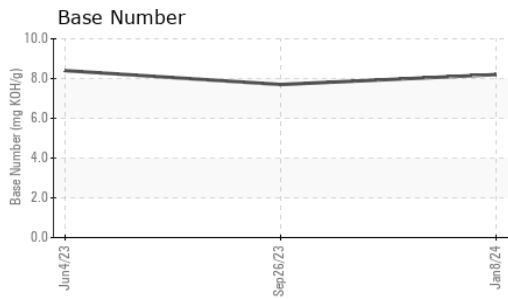
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>11</b>	11	12
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	4
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	0.2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.0</b>	9.2	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.4</b>	23.0	25.3
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	4	3
Boron	ppm	ASTM D5185m		<b>128</b>	84	163
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>226</b>	236	254
Manganese	ppm	ASTM D5185m		<b>2</b>	2	8
Magnesium	ppm	ASTM D5185m		<b>799</b>	901	775
Calcium	ppm	ASTM D5185m		<b>1471</b>	1490	1560
Phosphorus	ppm	ASTM D5185m		<b>815</b>	873	817
Zinc	ppm	ASTM D5185m		<b>1089</b>	1106	988
Sulfur	ppm	ASTM D5185m		<b>3023</b>	2604	2665
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.9</b>	17.7	21.5
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.2</b>	7.7	8.4
Visc @ 100°C	cSt	ASTM D445		<b>13.7</b>	13.6	▲ 11.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0182833 **Received** : 09 Jan 2024  
**Lab Number** : 06055178 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821127 **Diagnostician** : Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

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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)