



# OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id  
**NISSAN KOMATSU FORKLIFT**

Component  
**Propane Engine**

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

## RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform an accurate viscosity test.

## WEAR

The tin level is severe. Cylinder, crank, or cam shaft wear is indicated.

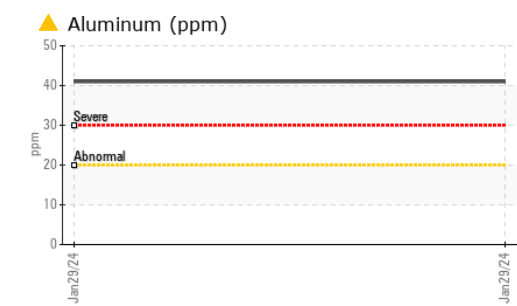
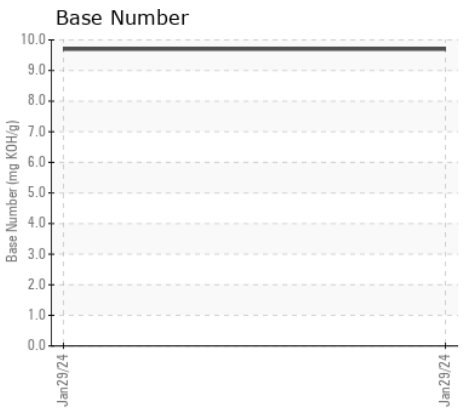
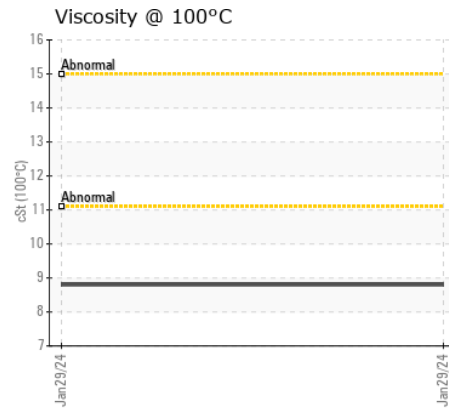
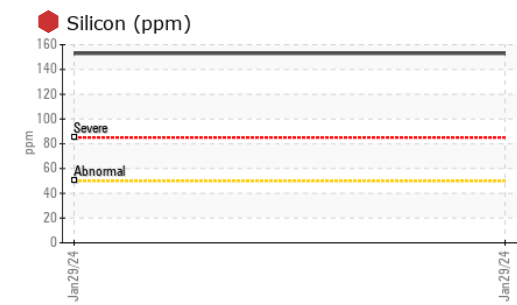
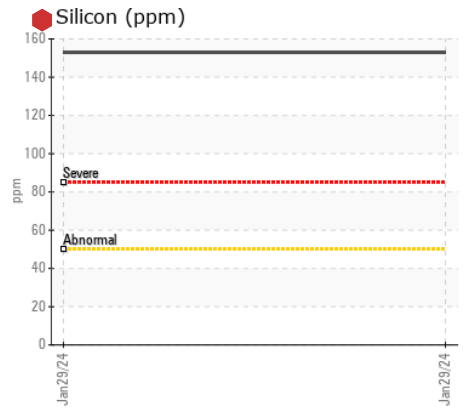
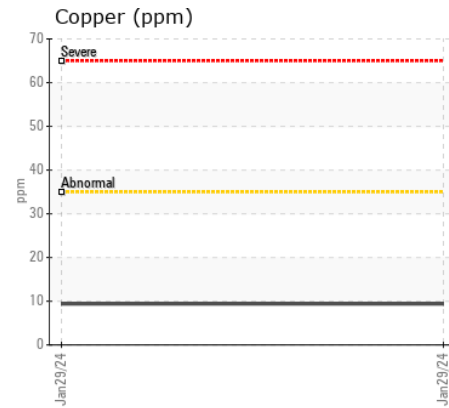
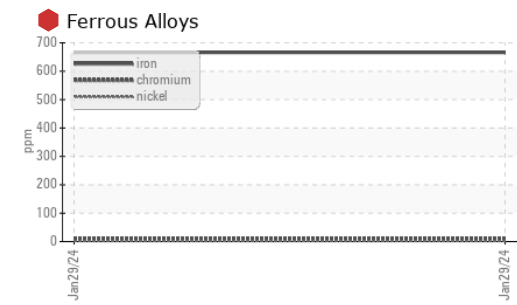
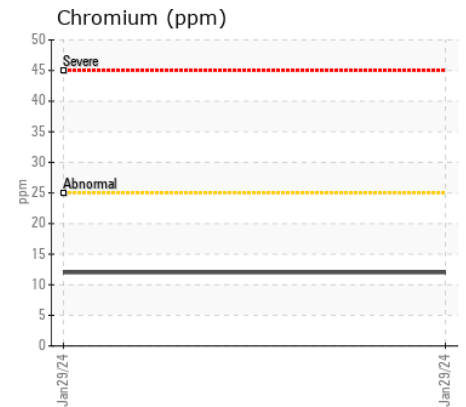
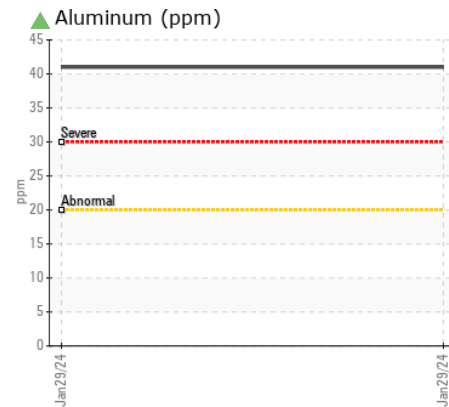
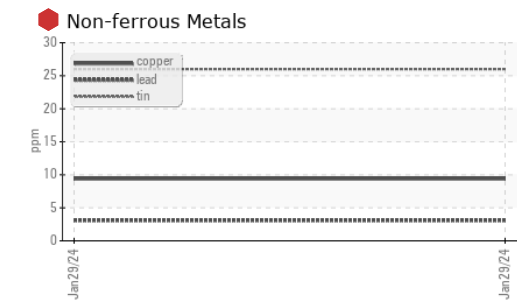
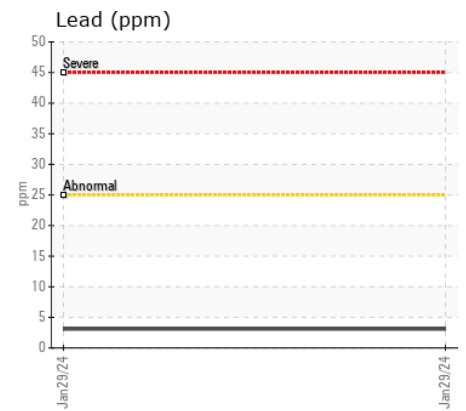
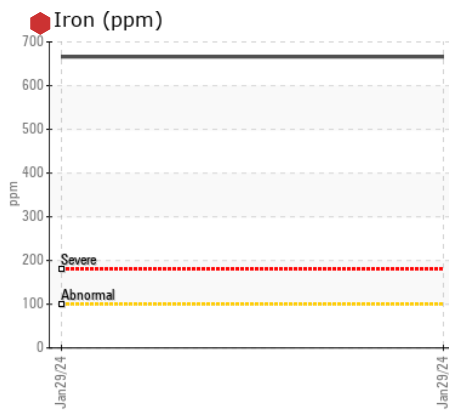
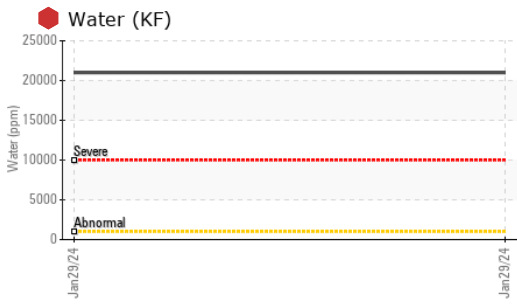
## CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil.

## FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0620236	---	---
Sample Date		Client Info		29 Jan 2024	---	---
Machine Age	hrs	Client Info		2550	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>100	666	---	---
Chromium	ppm	ASTM D5185m	>25	12	---	---
Nickel	ppm	ASTM D5185m	>5	2	---	---
Titanium	ppm	ASTM D5185m		5	---	---
Silver	ppm	ASTM D5185m	>5	<1	---	---
Aluminum	ppm	ASTM D5185m	>20	41	---	---
Lead	ppm	ASTM D5185m	>25	3	---	---
Copper	ppm	ASTM D5185m	>35	9	---	---
Tin	ppm	ASTM D5185m	>8	26	---	---
Vanadium	ppm	ASTM D5185m		4	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>50	153	---	---
Potassium	ppm	ASTM D5185m	>20	4	---	---
Water	%	ASTM D6304	>0.1	2.10	---	---
ppm Water	ppm	ASTM D6304	>1000	21000	---	---
Soot %	%	*ASTM D7844		0.1	---	---
Nitration	Abs/cm	*ASTM D7624	>20	20.6	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.1	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	MILKY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	---	---
Sodium	ppm	ASTM D5185m		25	---	---
Boron	ppm	ASTM D5185m		47	---	---
Barium	ppm	ASTM D5185m		<1	---	---
Molybdenum	ppm	ASTM D5185m		66	---	---
Manganese	ppm	ASTM D5185m		8	---	---
Magnesium	ppm	ASTM D5185m		243	---	---
Calcium	ppm	ASTM D5185m		1424	---	---
Phosphorus	ppm	ASTM D5185m		630	---	---
Zinc	ppm	ASTM D5185m		639	---	---
Sulfur	ppm	ASTM D5185m		2305	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		9.7	---	---
Visc @ 100°C	cSt	ASTM D445		8.8	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0620236 **Received** : 31 Jan 2024  
**Lab Number** : 06076316 **Diagnosed** : 05 Feb 2024  
**Unique Number** : 10858407 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB1+ ( Additional Tests: Glycol, KF )

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)

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