



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KIOTI PW50A0337

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 30 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KT0000860	---	---
Sample Date		Client Info		26 Jan 2024	---	---
Machine Age	hrs	Client Info		82	---	---
Oil Age	hrs	Client Info		82	---	---
Filter Age	hrs	Client Info		82	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---

WEAR

Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>100	55	---	---
Chromium	ppm	ASTM D5185m	>20	<1	---	---
Nickel	ppm	ASTM D5185m	>4	2	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m	>3	<1	---	---
Aluminum	ppm	ASTM D5185m	>20	23	---	---
Lead	ppm	ASTM D5185m	>40	▲ 128	---	---
Copper	ppm	ASTM D5185m	>330	▲ 1381	---	---
Tin	ppm	ASTM D5185m	>15	▲ 107	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

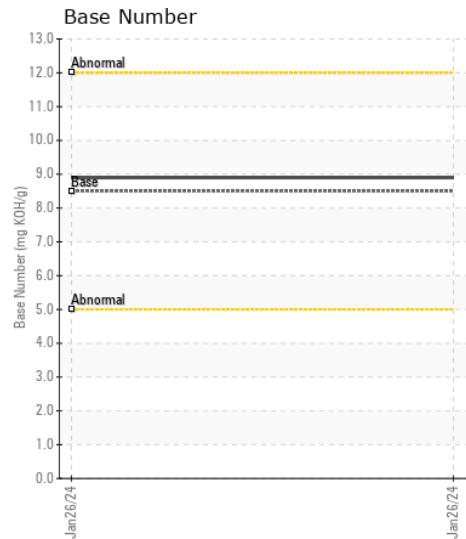
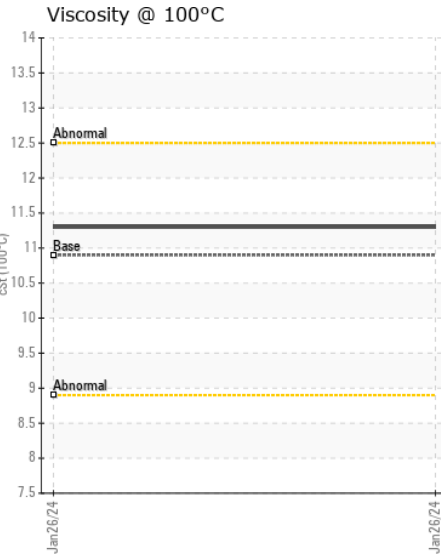
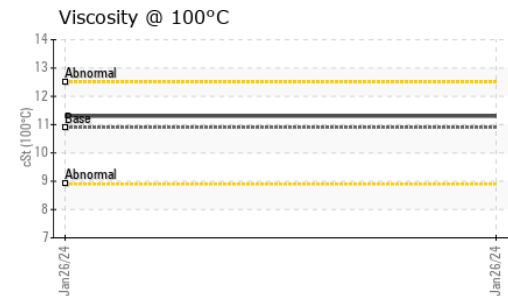
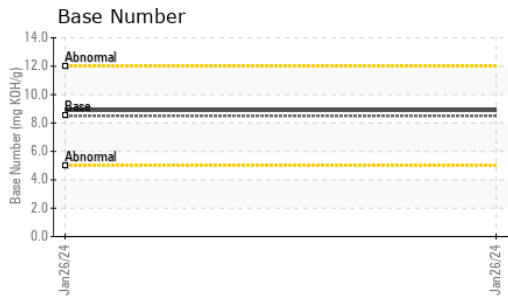
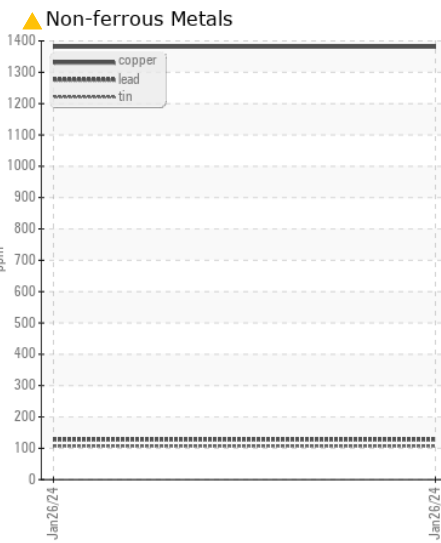
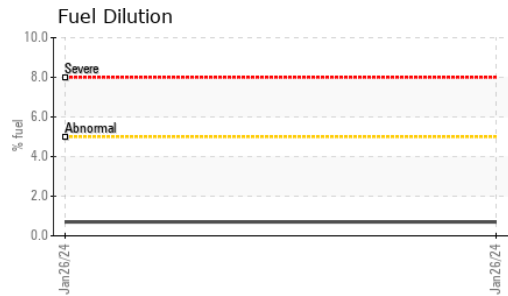
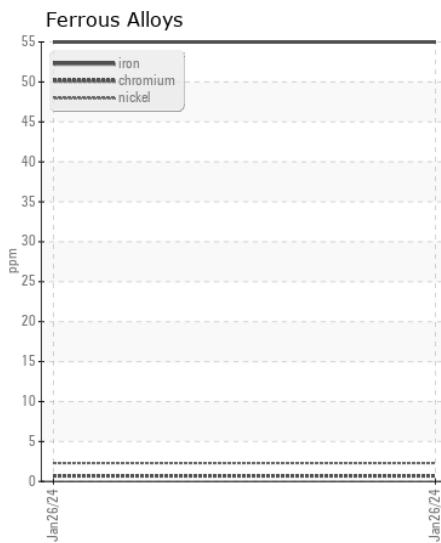
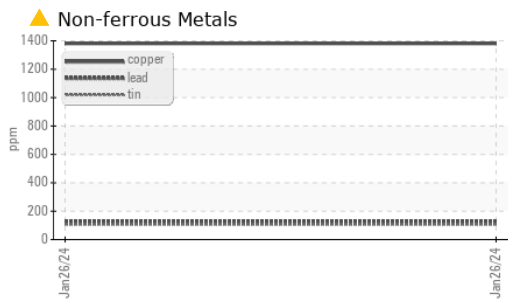
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	17	---	---
Potassium	ppm	ASTM D5185m	>20	<1	---	---
Fuel	%	ASTM D3524	>5	0.7	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844	>3	0.2	---	---
Nitration	Abs/cm	*ASTM D7624	>20	5.4	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.0	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m	>75	2	---	---
Boron	ppm	ASTM D5185m	250	4	---	---
Barium	ppm	ASTM D5185m	10	7	---	---
Molybdenum	ppm	ASTM D5185m	100	54	---	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m	450	954	---	---
Calcium	ppm	ASTM D5185m	3000	1046	---	---
Phosphorus	ppm	ASTM D5185m	1150	1081	---	---
Zinc	ppm	ASTM D5185m	1350	1233	---	---
Sulfur	ppm	ASTM D5185m	4250	3137	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.9	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.9	---	---
Visc @ 100°C	cSt	ASTM D445	10.9	11.3	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0000860 **Received** : 30 Jan 2024
Lab Number : 06073636 **Diagnosed** : 31 Jan 2024
Unique Number : 10850313 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, 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)