



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
KIOTI PA2UA1253
 Component
Diesel Engine
 Fluid
{not provided} (--- GAL)

RECOMMENDATION

We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KT0000058	---	---
Sample Date		Client Info		03 Nov 2023	---	---
Machine Age	hrs	Client Info		50	---	---
Oil Age	hrs	Client Info		50	---	---
Filter Age	hrs	Client Info		50	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

Piston, ring and cylinder wear is indicated. Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>100	▲ 133	---	---
Chromium	ppm	ASTM D5185m	>20	4	---	---
Nickel	ppm	ASTM D5185m	>4	3	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>3	0	---	---
Aluminum	ppm	ASTM D5185m	>20	▲ 66	---	---
Lead	ppm	ASTM D5185m	>40	▲ 91	---	---
Copper	ppm	ASTM D5185m	>330	▲ 348	---	---
Tin	ppm	ASTM D5185m	>15	▲ 35	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

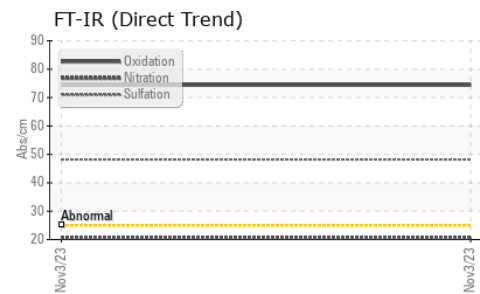
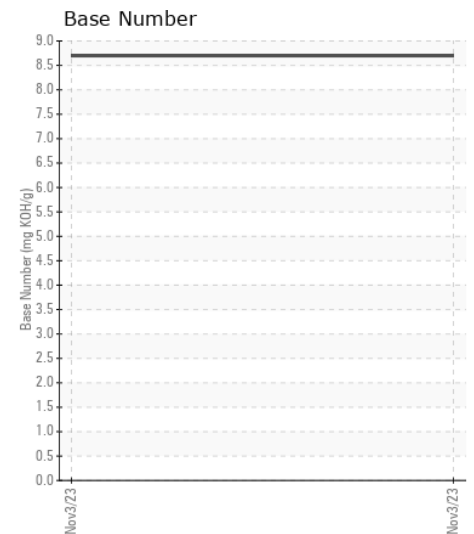
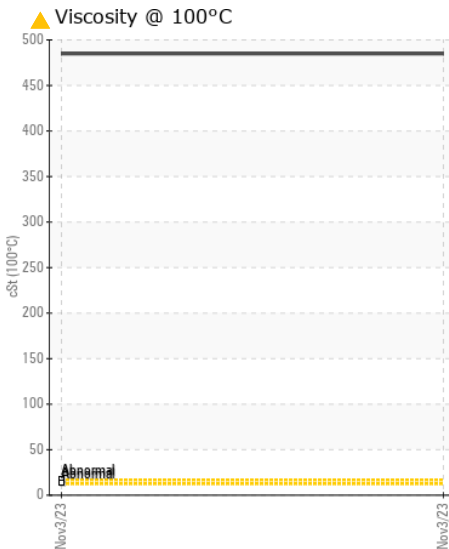
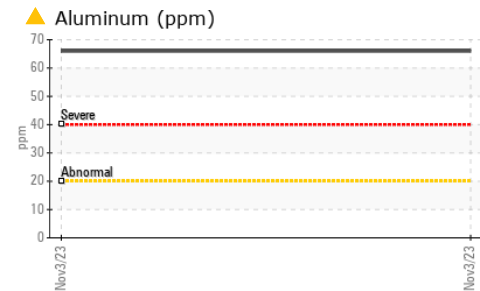
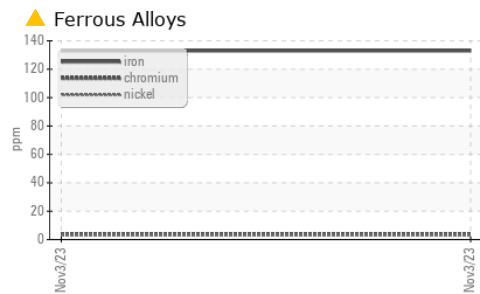
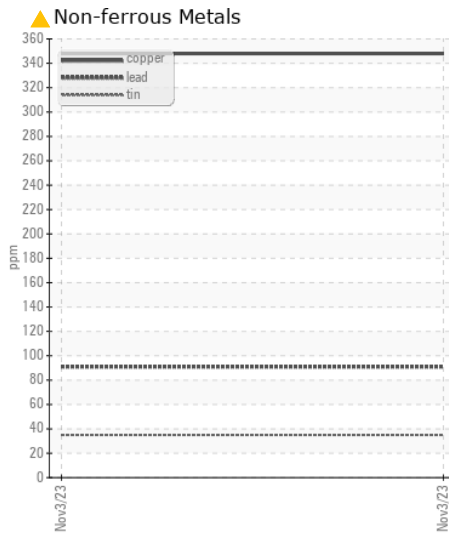
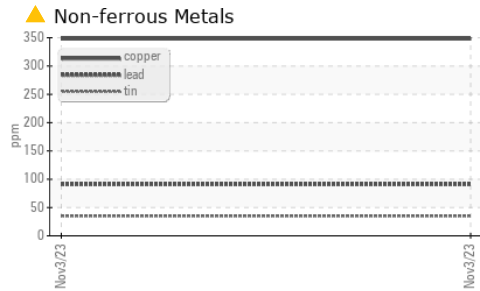
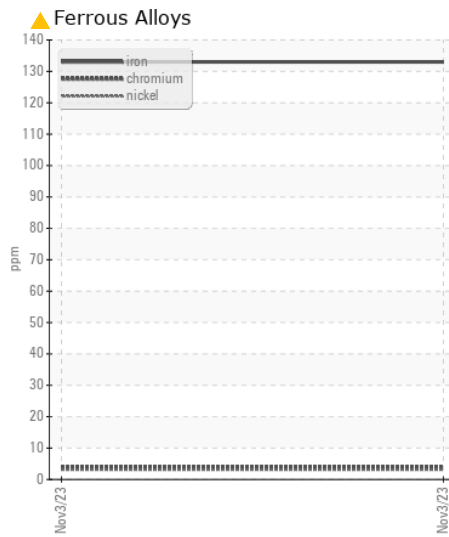
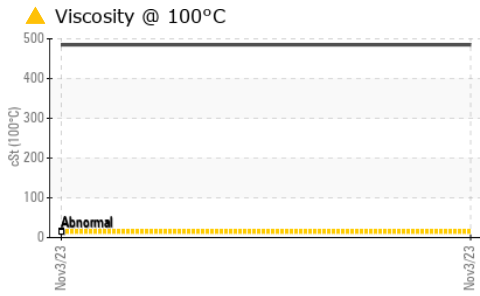
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	22	---	---
Potassium	ppm	ASTM D5185m	>20	4	---	---
Fuel		WC Method	>5	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844	>3	0.2	---	---
Nitration	Abs/cm	*ASTM D7624	>20	20.6	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	48.2	---	---
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 oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		5	---	---
Boron	ppm	ASTM D5185m		438	---	---
Barium	ppm	ASTM D5185m		25	---	---
Molybdenum	ppm	ASTM D5185m		96	---	---
Manganese	ppm	ASTM D5185m		4	---	---
Magnesium	ppm	ASTM D5185m		1427	---	---
Calcium	ppm	ASTM D5185m		2614	---	---
Phosphorus	ppm	ASTM D5185m		1848	---	---
Zinc	ppm	ASTM D5185m		2217	---	---
Sulfur	ppm	ASTM D5185m		4667	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	74.4	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		8.7	---	---
Visc @ 100°C	cSt	ASTM D445		▲ 484.9	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : KT0000058

Lab Number : 05999735

Unique Number : 10728095

Test Package : CONST (Additional Tests: TBN)

Received : 06 Nov 2023

Tested : 14 Nov 2023

Diagnosed : 14 Nov 2023 - Jonathan Hester

HITCHIN POST TRAILER AND TRACTOR

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F:

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)