



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
KIOTI 55587
Component
Diesel Engine
Fluid
KIOTI 15W40 (--- GAL)

RECOMMENDATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KT0000874	---	---
Sample Date		Client Info		06 May 2024	---	---
Machine Age	hrs	Client Info		321	---	---
Oil Age	hrs	Client Info		121	---	---
Filter Age	hrs	Client Info		121	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				SEVERE	---	---

WEAR

Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>100	110	---	---
Chromium	ppm	ASTM D5185m	>20	2	---	---
Nickel	ppm	ASTM D5185m	>4	2	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>3	<1	---	---
Aluminum	ppm	ASTM D5185m	>20	9	---	---
Lead	ppm	ASTM D5185m	>40	▲ 188	---	---
Copper	ppm	ASTM D5185m	>330	▲ 1775	---	---
Tin	ppm	ASTM D5185m	>15	▲ 183	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

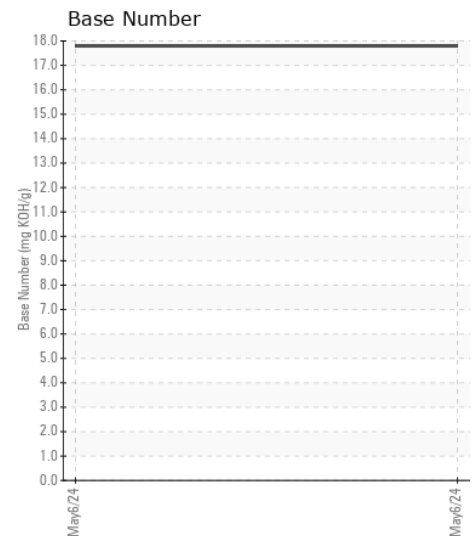
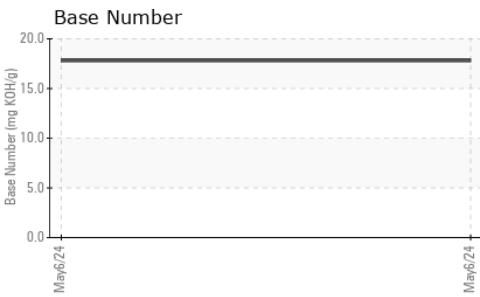
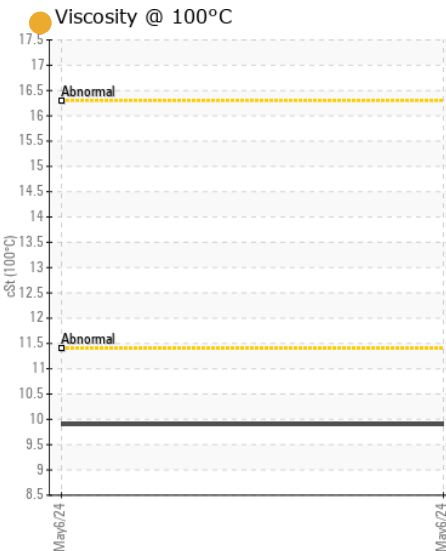
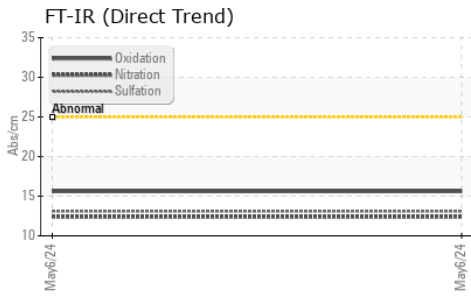
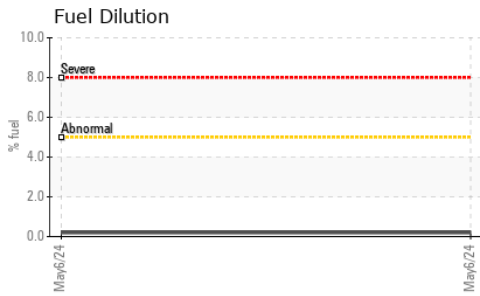
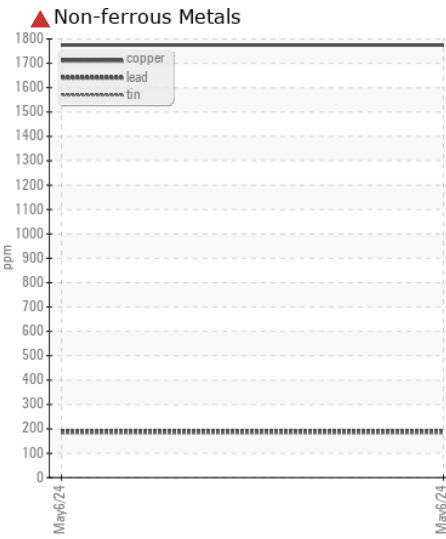
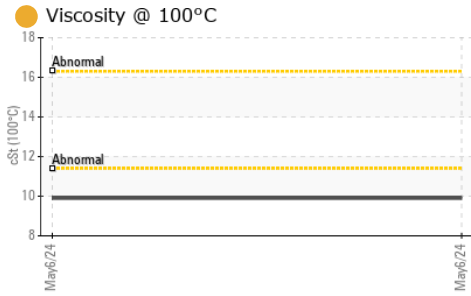
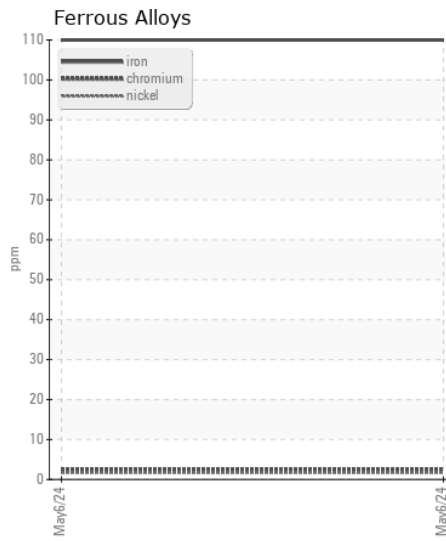
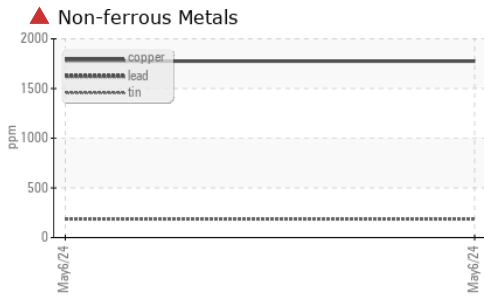
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	20	---	---
Potassium	ppm	ASTM D5185m	>20	3	---	---
Fuel	%	ASTM D3524	>5	0.2	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	*ASTM D2982		NEG	---	---
Soot %	%	*ASTM D7844	>3	0.6	---	---
Nitration	Abs/cm	*ASTM D7624	>20	12.4	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	13.1	---	---
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 lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m		5	---	---
Boron	ppm	ASTM D5185m		69	---	---
Barium	ppm	ASTM D5185m		20	---	---
Molybdenum	ppm	ASTM D5185m		63	---	---
Manganese	ppm	ASTM D5185m		3	---	---
Magnesium	ppm	ASTM D5185m		873	---	---
Calcium	ppm	ASTM D5185m		1107	---	---
Phosphorus	ppm	ASTM D5185m		1097	---	---
Zinc	ppm	ASTM D5185m		1260	---	---
Sulfur	ppm	ASTM D5185m		3389	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		17.8	---	---
Visc @ 100°C	cSt	ASTM D445		9.9	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0000874
Lab Number : 06174869
Unique Number : 11020922
Test Package : CONST (Additional Tests: FuelDilution, Glycol, PercentFuel, TBN)

Received : 09 May 2024
Tested : 16 May 2024
Diagnosed : 16 May 2024 - Jonathan Hester

TRUE VALUE TRAILERS
 635 SHOOP DR
 PENROSE, CO
 US 81240

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: CHRIS WALKINSHAW
service@truevaluetrailers.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (719)784-0123

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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