



OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

Machine Id
KIOTI VR8000121

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

▲ Recommendation

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

Wear

Metal levels are typical for a components first oil change.

▲ Contamination

Light fuel dilution occurring.

▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KT0000708	---	---
Sample Date	Client Info	20 Feb 2024	---	---
Machine Age	hrs	Client Info	59	---
Oil Age	hrs	Client Info	59	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	---
Glycol	WC Method		NEG	---

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	8	---
Chromium	ppm	ASTM D5185m	>20	<1	---
Nickel	ppm	ASTM D5185m	>4	0	---
Titanium	ppm	ASTM D5185m		<1	---
Silver	ppm	ASTM D5185m	>3	0	---
Aluminum	ppm	ASTM D5185m	>20	1	---
Lead	ppm	ASTM D5185m	>40	14	---
Copper	ppm	ASTM D5185m	>330	42	---
Tin	ppm	ASTM D5185m	>15	1	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	250	2	---
Barium	ppm	ASTM D5185m	10	16	---
Molybdenum	ppm	ASTM D5185m	100	54	---
Manganese	ppm	ASTM D5185m		2	---
Magnesium	ppm	ASTM D5185m	450	870	---
Calcium	ppm	ASTM D5185m	3000	1031	---
Phosphorus	ppm	ASTM D5185m	1150	992	---
Zinc	ppm	ASTM D5185m	1350	1103	---
Sulfur	ppm	ASTM D5185m	4250	3097	---

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	15	---
Sodium	ppm	ASTM D5185m	>158	3	---
Potassium	ppm	ASTM D5185m	>20	0	---
Fuel	%	ASTM D3524	>5	▲ 2.9	---

INFRA-RED

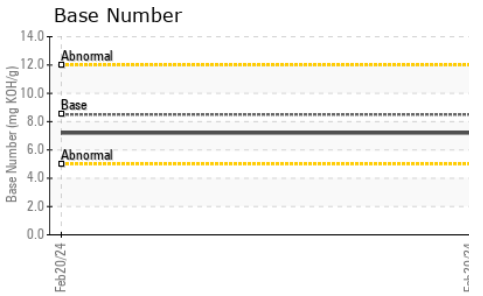
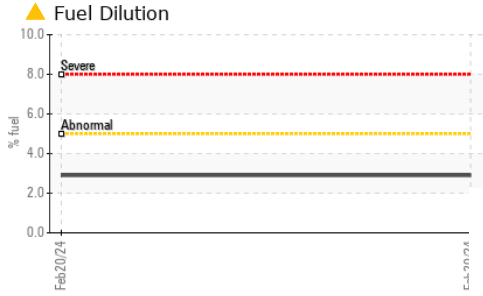
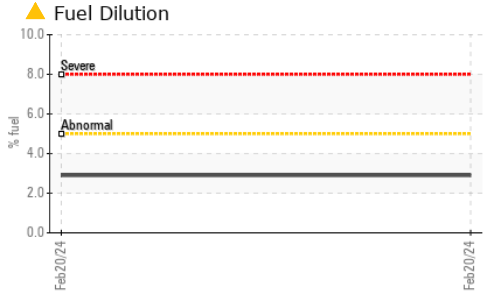
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	5.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.1	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.2	---



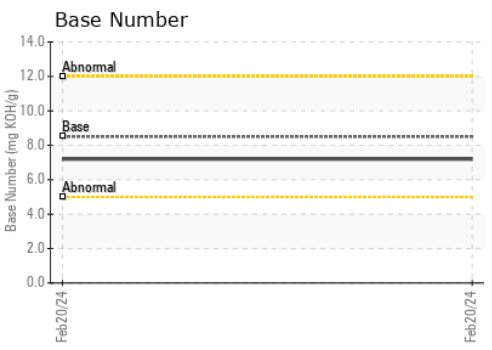
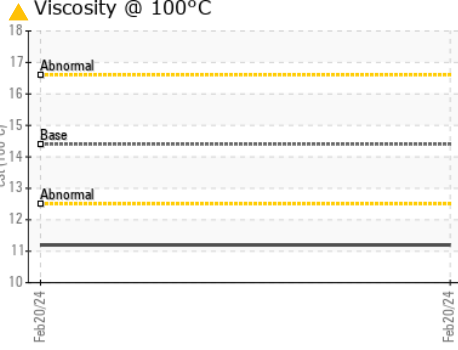
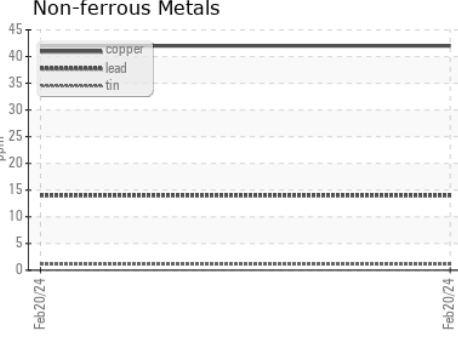
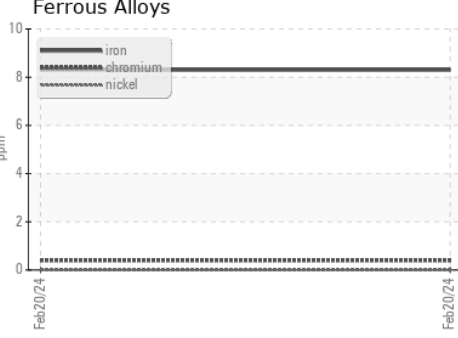
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
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	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 11.2	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0000708 **Received** : 26 Feb 2024
Lab Number : 06099562 **Tested** : 28 Feb 2024
Unique Number : 10897792 **Diagnosed** : 28 Feb 2024 - Wes Davis
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

TEAM TRACTOR AND EQUIPMENT
 1100 W HAPPY VALLEY RD
 PHOENIX, AZ
 US 85085
 Contact: MARK PEREA
 service@teamtractor.com

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)