



OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
40015
 Component
Diesel Engine
 Fluid
KENDALL 15W40 (--- QTS)

DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

▲ Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0867750	---	---
Sample Date	Client Info	19 Feb 2024	---	---
Machine Age	hrs Client Info	5946	---	---
Oil Age	hrs Client Info	553	---	---
Oil Changed	Client Info	Changed	---	---
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	17	---	---
Chromium	ppm ASTM D5185m >20	1	---	---
Nickel	ppm ASTM D5185m >4	0	---	---
Titanium	ppm ASTM D5185m	74	---	---
Silver	ppm ASTM D5185m >3	0	---	---
Aluminum	ppm ASTM D5185m >20	5	---	---
Lead	ppm ASTM D5185m >40	4	---	---
Copper	ppm ASTM D5185m >330	4	---	---
Tin	ppm ASTM D5185m >15	2	---	---
Vanadium	ppm ASTM D5185m	<1	---	---
Cadmium	ppm ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 6.3	127	---	---
Barium	ppm ASTM D5185m 0.6	0	---	---
Molybdenum	ppm ASTM D5185m 0.4	6	---	---
Manganese	ppm ASTM D5185m	<1	---	---
Magnesium	ppm ASTM D5185m 277	382	---	---
Calcium	ppm ASTM D5185m 1514	1584	---	---
Phosphorus	ppm ASTM D5185m 634	890	---	---
Zinc	ppm ASTM D5185m 743	1071	---	---
Sulfur	ppm ASTM D5185m 2592	3388	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	4	---	---
Sodium	ppm ASTM D5185m	2	---	---
Potassium	ppm ASTM D5185m >20	<1	---	---
Fuel	% ASTM D3524 >5	▲ 7.4	---	---

INFRA-RED

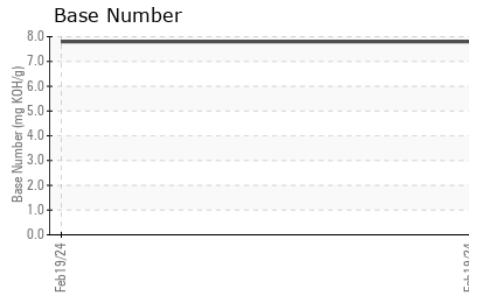
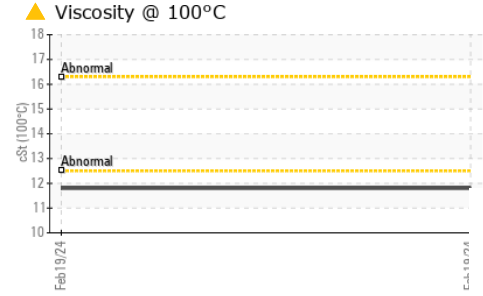
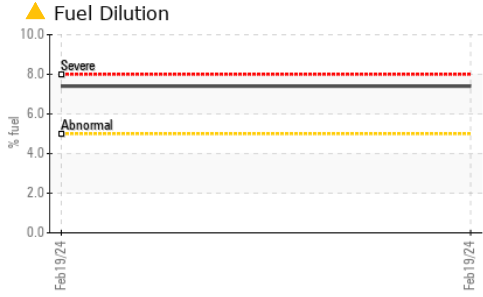
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.4	---	---
Nitration	Abs/cm *ASTM D7624 >20	7.8	---	---
Sulfation	Abs/.1mm *ASTM D7415 >30	19.7	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	14.6	---	---
Base Number (BN)	mg KOH/g ASTM D2896	7.8	---	---



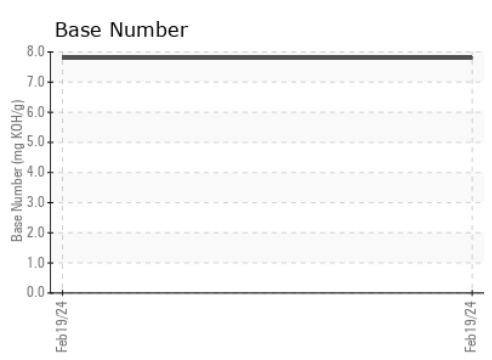
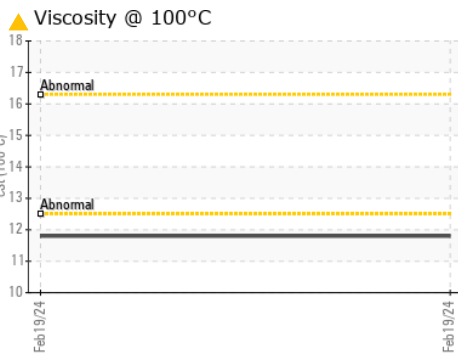
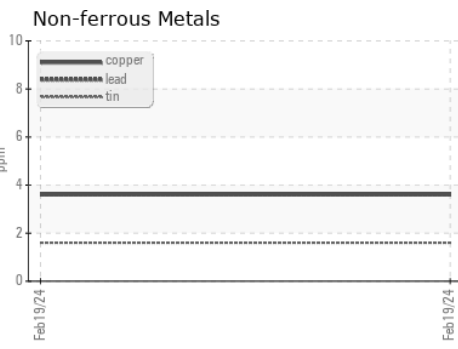
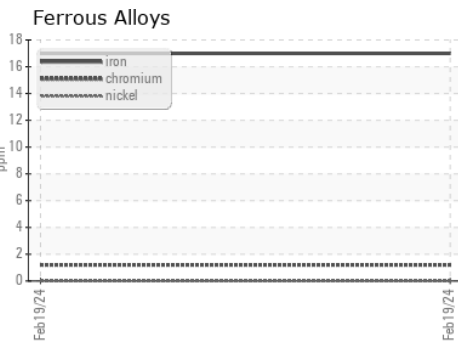
OIL ANALYSIS REPORT



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	▲ 11.8	---	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0867750 **Received** : 22 Feb 2024
Lab Number : 06097506 **Tested** : 26 Feb 2024
Unique Number : 10890359 **Diagnosed** : 26 Feb 2024 - Wes Davis
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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 GREENEVILLE, TN
 US 37745
 Contact: SHOP
 shop@burkharterenterprises.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. T:
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F:
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)