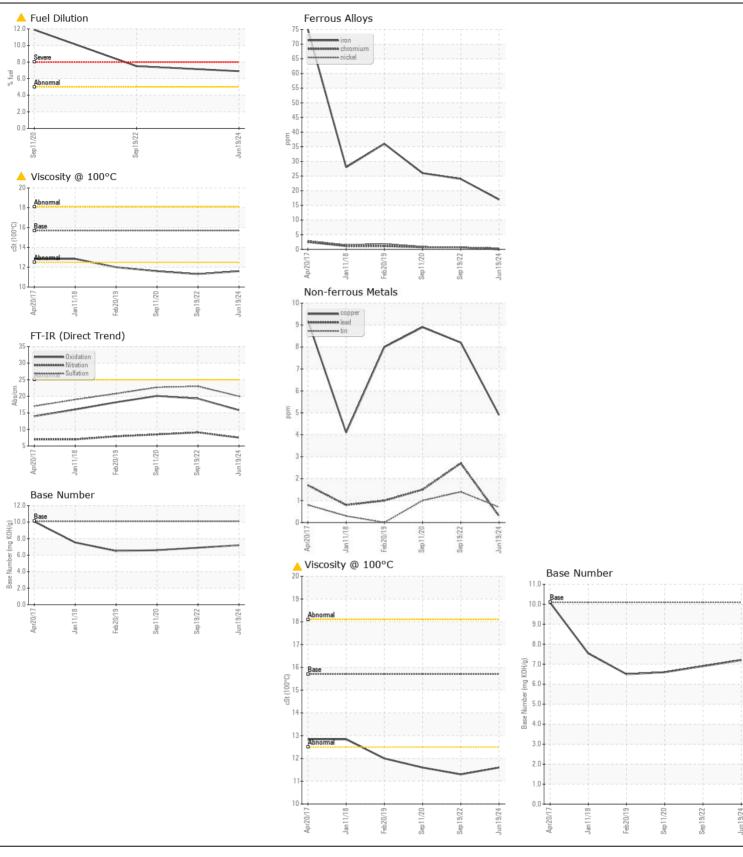
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL ABNORMAL

Machine Id

KENWORTH RB2060

Component Diesel Engine Fluid							
SHELL ROTELLA T 15W40 (44 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WC0955673	WC0729237	WC0453429
	Sample Date		Client Info		19 Jun 2024	19 Sep 2022	11 Sep 2020
	Machine Age	mls	Client Info		59182	47183	33036
	Oil Age	mls	Client Info		14999	14147	9155
	Filter Age	mls	Client Info		14999	0	9155
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	0
WEAR	Iron	ppm	ASTM D5185m	>100	17	24	26
	Chromium	ppm	ASTM D5185m	>6	0	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm		>4	<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		3	2	1
	Lead	ppm	ASTM D5185m		<1	3	2
	Copper	ppm	ASTM D5185m		5	8	9
	Tin	ppm	ASTM D5185m		<1	1	1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	17	<u> </u>	6
CONTAININATION	Potassium	ppm	ASTM D5185m		7	7	11
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3163111	>5	, ▲ 6.9	7.5	▲ 11.9
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.Z	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\3	0.3	0.3	0.3
	Nitration	Abs/cm		>20	7.5	9.1	8.5
	Sulfation	Abs/.1mm	*ASTM D7415		20.0	23.0	22.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	2	2
I LOID CONDITION	Boron	ppm	ASTM D5185m	316	119	113	137
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.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		24	5	3
	Manganese	ppm	ASTM D5185m	1.4	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	24	148	52	27
	Calcium	ppm	ASTM D5185m		2002	2023	1984
	Phosphorus	ppm	ASTM D5185m		1006	877	876
	Zinc	ppm	ASTM D5185m		1179	1093	1043
	Sulfur	ppm	ASTM D5185m		3923	3689	2988
	Oxidation	Abs/.1mm	*ASTM D7414		15.8	19.3	20.1
	Base Number (BN)		ASTM D7414 ASTM D2896		7.2	6.9	6.6
	Visc @ 100°C	cSt	ASTM D2090		11.6	△ 11.3	△ 11.6
	V130 @ 100 0	OOL	70 LINI D449	13.7	- 11.0	_ 11.0	_ 11.0





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0955673 Lab Number : 06217483

Received **Tested** Unique Number: 11090347

Diagnosed

: 21 Jun 2024 : 25 Jun 2024

: 25 Jun 2024 - Wes Davis

4505 SOUTH HOLDEN ROAD GREENSBORO, NC US 27406

GUY M TURNER & TURNER TRANSFER

Contact: ROGER HIXSON rhixson@guymturner.com T: (336)294-4660

Test Package: FLEET (Additional Tests: PercentFuel) Certificate L2367 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)

F: (336)294-6644