WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

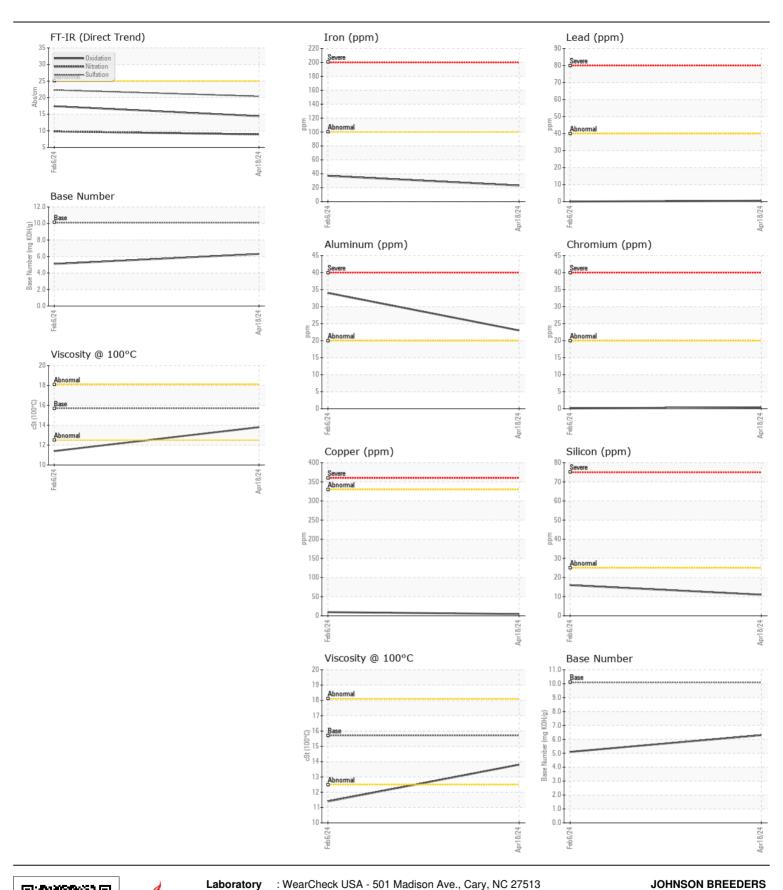
Machine Id

KENWORTH T880 5738 (S/N Y322770)

Component Diesel Engine

SHELL ROTELLA T 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0878960	WC0878899	
	Sample Date		Client Info		18 Apr 2024	06 Feb 2024	
	Machine Age	mls	Client Info		21374	13179	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				NORMAL	ATTENTION	
VEAR	Iron	ppm	ASTM D5185m	>100	23	37	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	<1	<1	
	Aluminum	ppm	ASTM D5185m	>20	23	34	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m	>330	5	9	
	Tin	ppm	ASTM D5185m	>15	1	2	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Ciliana		ACTM DE10E	05	44	10	
CONTAMINATION	Silicon	ppm	ASTM D5185m		11	16	
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m WC Method		64 <1.0	103 0.5	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	\ 3	0.2	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	8.9	9.8	
	Sulfation	Abs/.1mm	*ASTM D7415		20.4	22.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0.15	2	3	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		14	30	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	
	Molybdenum	ppm	ASTM D5185m	1.2	19	0	
	Manganese	ppm	ASTM D5185m	0.4	<1	2	
	Magnesium	ppm	ASTM D5185m		329	735	
	Calcium	ppm	ASTM D5185m	2292	1987	1196	
	Phosphorus	ppm	ASTM D5185m		1002	700	
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		1113	805 2795	
	Oxidation	ppm Abs/.1mm	*ASTM D7414		3841 14.4	17.4	
	Base Number (BN)				6.3	5.1	
	Dase Mullipel (DIN)	my KON/y	AO INI DZ030	10.1	0.3	J. I	





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0878960

Lab Number : 06155116 Unique Number: 10990539

Received **Tested** Diagnosed

: 24 Apr 2024 - Jonathan Hester Test Package : MOB 1 (Additional Tests: TBN)

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.

ROSE HILL, NC US 28458 Contact: GREG JONES

3425 HWY 117N

gregory.jones@houseofraeford.com T: (910)289-6884

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

: 19 Apr 2024

: 24 Apr 2024