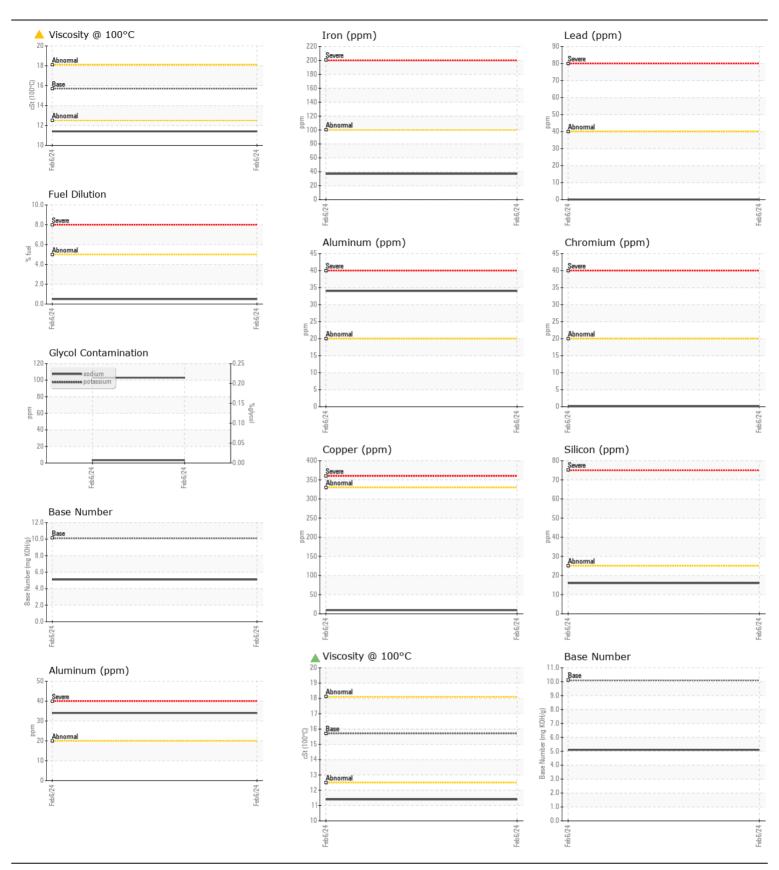
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL ATTENTION

KENWORTH T880 5738 (S/N Y322770)

Component / Diesel Engine							
SHELL ROTELLA T 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HEOGMINIENDATION	Sample Number	OOW	Client Info	LITTIO/ NOT	WC0878899		
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		06 Feb 2024		
	Machine Age	mls	Client Info		13179		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed	11110	Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status		Oliciti iiilo		ATTENTION		
WEAR	Iron	ppm	ASTM D5185m	>100	37		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>20	34		
	Lead	ppm	ASTM D5185m	>40	0		
	Copper	ppm	ASTM D5185m	>330	9		
	Tin	ppm	ASTM D5185m	>15	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		16		
Fuel content negligible. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components.	Potassium	ppm	ASTM D5185m	>20	103		
	Fuel	%	ASTM D3524	>5	0.5		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	9.8		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3		
	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		
EL LUD CONDITION	مان ساد		ACTM DE10E		•		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	210	3		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		30		
	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m	1.2	0		
	Manganese	ppm	ASTM D5185m	0.4	2		
	Magnesium	ppm	ASTM D5185m		735		
	Calcium	ppm	ASTM D5185m		1196		
	Phosphorus	ppm	ASTM D5185m		700		
	Zinc	ppm	ASTM D5185m		805		
	Sulfur	ppm	ASTM D5185m		2795		
	Oxidation	Abs/.1mm	*ASTM D7414		17.4		
	Base Number (BN)		ASTM D2896		5.1		
	Visc @ 100°C	cSt	ASTM D445	15./	11.4		





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0878899 Lab Number : 06082964

Unique Number : 10870409

Received **Tested**

: 09 Feb 2024 Diagnosed

: 09 Feb 2024 - Don Baldridge Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

: 07 Feb 2024

3425 HWY 117N ROSE HILL, NC Contact: GREG JONES

JOHNSON BREEDERS

gregory.jones@houseofraeford.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)

US 28458

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