WEAR CONTAMINATION **FLUID CONDITION**

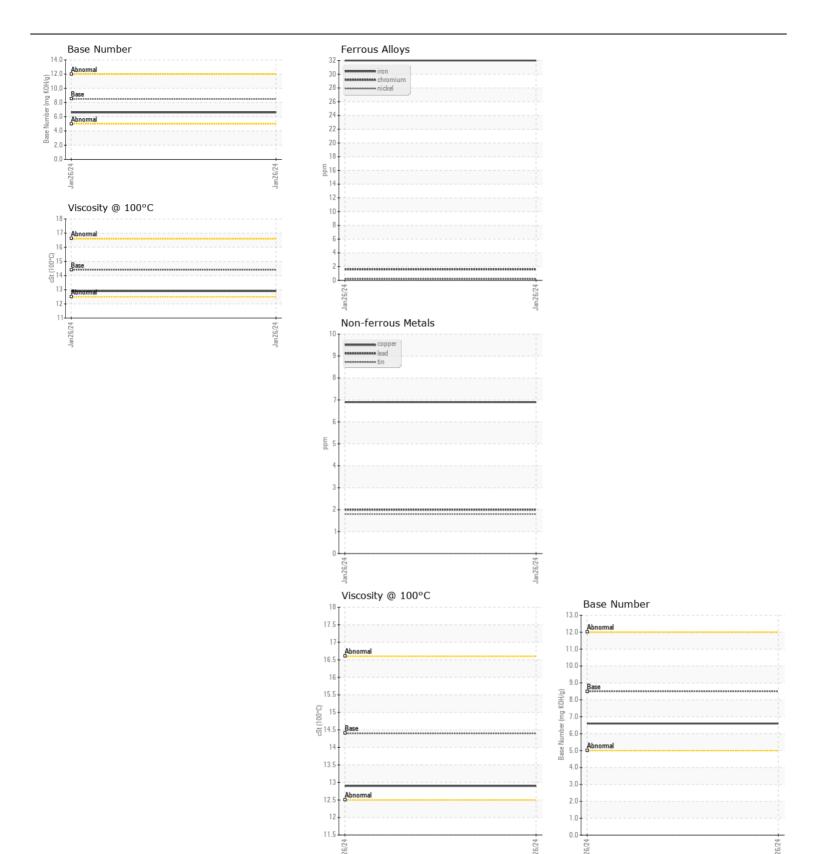
NORMAL NORMAL **NORMAL**

BALDWIN STEPHON - TLD O/O

FREIGHTLINER 3023438

Diesel Engine

DIESEL ENGINE OIL SAE 40 (GAL)							
RECOMMENDATION	Toot	LIOM	Mothod	Limit/Abn	Current	Lioton (1	∐ioton/?
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.	Test Sample Number	UOM	Method Client Info	LIIIII/ADII	NL0002012	History1	History2
	Sample Date		Client Info		26 Jan 2024		
	Machine Age	mls	Client Info		71119		
	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				NORMAL		
WEAR	Iron	nnm	ASTM D5185m	~80	32		
WEAR Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	>2	0		
	Silver	ppm	ASTM D5185m	. 2	<1		
	Aluminum	ppm	ASTM D5185m		21		
	Lead	ppm	ASTM D5185m		21		
	Copper	ppm	ASTM D5185m		7		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m	75	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
			Visuai				
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. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>20	11		
	Potassium	ppm	ASTM D5185m	>20	57		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	9.0		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	2		
I LOID CONDITION	Boron	ppm	ASTM D5185m		9		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		60		
	Manganese	ppm	ASTM D5185m	100	2		
	Magnesium	ppm	ASTM D5185m	450	913		
	Calcium	ppm	ASTM D5185m		1103		
	Phosphorus	ppm	ASTM D5185m		968		
	Zinc	ppm	ASTM D5185m		1215		
	Sulfur	ppm	ASTM D5185m		3164		
	Oxidation	Abs/.1mm	*ASTM D7414		17.3		
	Base Number (BN)				6.6		
	Visc @ 100°C	cSt	ASTM D445		12.9		







Certificate L2367

Laboratory Sample No.

Lab Number : 06124244 Unique Number : 10938395 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : NL0002012 Received : 20 Mar 2024 **Tested**

: 21 Mar 2024 : 21 Mar 2024 - Wes Davis Diagnosed

KIRK NATIONALEASE - SHOP 51

7283 SPA RD NORTH CHARLESTON, SC

US 29405

Contact: Neil Newman shop51@knl.cc

T: (843)760-9600 F: (843)760-9602

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)

Report Id: KIRNOR [WUSCAR] 06124244 (Generated: 03/21/2024 15:48:31) Rev: 1

Submitted By: Neil Newman