**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

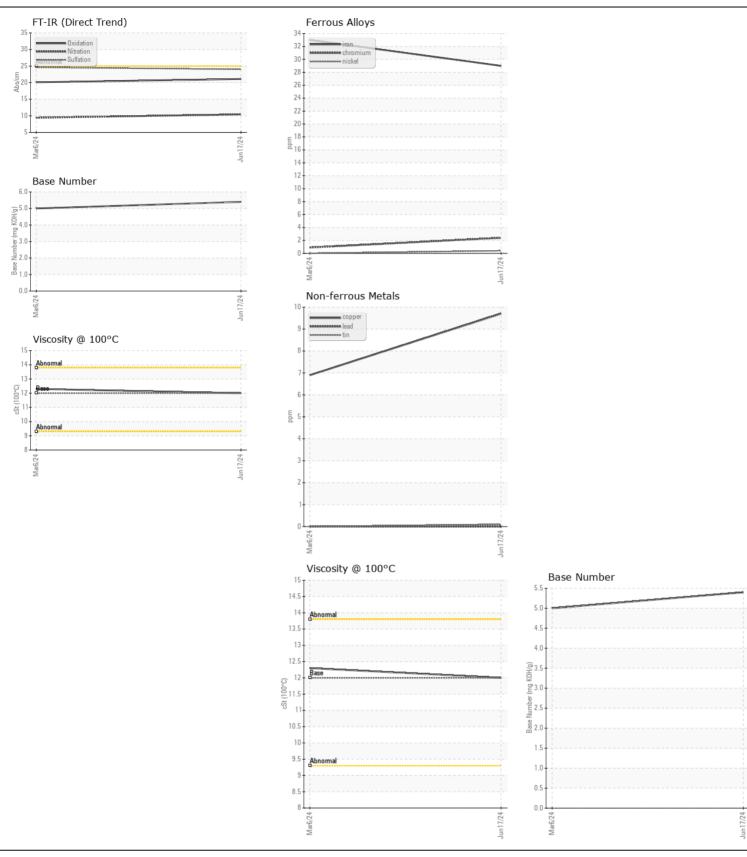
Machine Id

## **FREIGHTLINER 347**

Component
Diesel Engine

PETRO CANADA DURON SHP 10W30 (10 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		LW0009404	LW0008990	
	Sample Date		Client Info		17 Jun 2024	06 Mar 2024	
	Machine Age	mls	Client Info		684305	630351	
	Oil Age	mls	Client Info		53954	50000	
	Filter Age	mls	Client Info		25000	25000	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	>80	29	33	
PEARL	Chromium	ppm	ASTM D5185m		2	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		- <1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	<b>\3</b>	0	0	
	Aluminum	ppm	ASTM D5185m		10	13	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		10	7	
	Tin	ppm	ASTM D5185m		<1	0	
	Vanadium	ppm	ASTM D5185m	70	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m		7	8	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	10	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.7	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.4	
	Sulfation	Abs/.1mm	*ASTM D7415		24.0	24.6	
	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	
LUID CONDITION	Sodium	ppm	ASTM D5185m		1	1	
	Boron	ppm	ASTM D5185m	2	2	34	
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	0	0	0	
	Molybdenum	ppm	ASTM D5185m	50	56	7	
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m	950	906	67	
	Calcium	ppm	ASTM D5185m	1050	1460	2297	
	Phosphorus	ppm	ASTM D5185m	995	1111	1038	
	Zinc	ppm	ASTM D5185m	1180	1442	1234	
	Sulfur	ppm	ASTM D5185m		3146	3614	
	Oxidation	Abs/.1mm	*ASTM D7414		21.1	20.1	
	Base Number (BN)				5.4	5.0	
	( )	0 - 3		12.00	12.0	12.3	







Certificate L2367

Laboratory Sample No.

Lab Number : 06217921 Unique Number : 11096118 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LW0009404 Received : 24 Jun 2024 **Tested** : 25 Jun 2024

Diagnosed

: 25 Jun 2024 - Wes Davis

LIV TRANSPORTATION, INC 9809 INDUSTRIAL DRIVE

BRIDGEVIEW, IL US 60455

Contact: BART KORLAGA BART@LIVTRANSPORTATION.COM T: (224)875-1049

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)