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

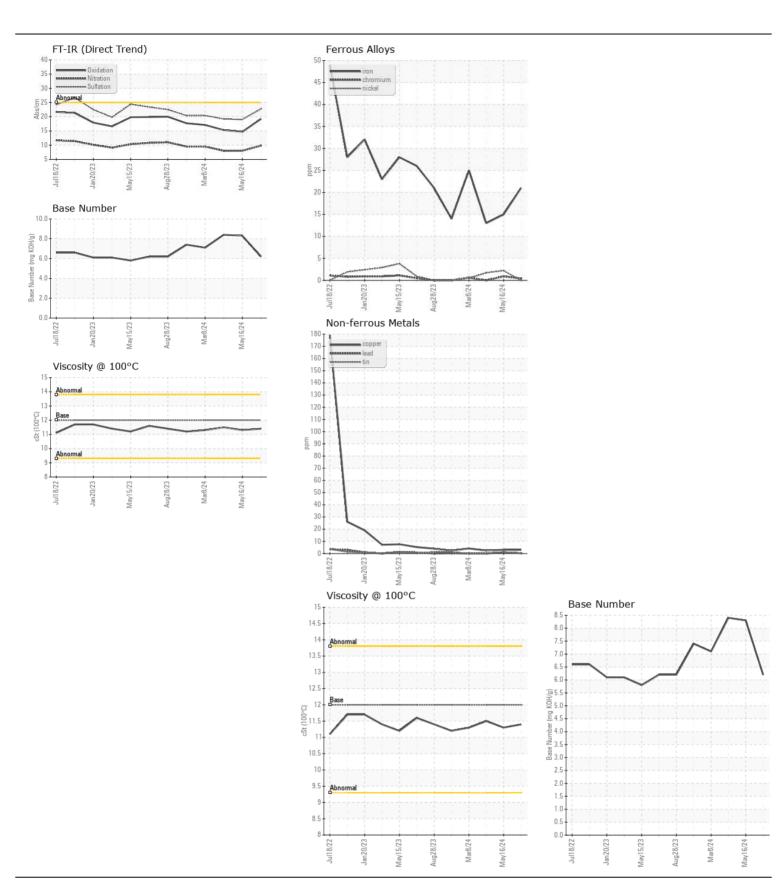
**NORMAL** NORMAL **NORMAL** 

Machine Id

300

Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 10W30 (10 GAL	)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		LW0009409	LW0009171	LW0009158
	Sample Date		Client Info		17 Jun 2024	16 May 2024	03 Apr 2024
	Machine Age	mls	Client Info		727115	695207	656108
	Oil Age	mls	Client Info		31908	39099	25615
	Filter Age	mls	Client Info		31908	39099	25615
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAD	Iron	nnm	ACTM DE10Em	. 100	21	15	13
WEAR	Iron	ppm	ASTM D5185m				
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		<1	<1	0
		ppm	ASTM D5185m	>4	0	2	2
	Titanium	ppm	ASTM D5185m	. 0	0	<1	<1
	Silver Aluminum	ppm	ASTM D5185m		0	<1 4	0
		ppm	ASTM D5185m		3		5
	Lead	ppm	ASTM D5185m ASTM D5185m		<1 3	<1 3	0 2
	Copper Tin	ppm	ASTM D5185m		0	1	0
	Vanadium	ppm	ASTM D5185m	>10	∨ <1	<1	0
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
			visuai	INOINE	HONE	NONE	INOINE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	6	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	4	23
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	8.0	8.0
	Sulfation	Abs/.1mm	*ASTM D7415		22.7	19.0	19.2
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	<1	10
	Boron	ppm	ASTM D5185m	2	<1	2	1
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		61	62	63
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m	950	1045	1007	994
	Calcium	ppm	ASTM D5185m	1050	1209	1198	1141
	Phosphorus	ppm	ASTM D5185m	995	1121	1109	1096
	Zinc	ppm	ASTM D5185m	1180	1409	1350	1324
	Sulfur	ppm	ASTM D5185m	2600	3490	3596	3674
	Oxidation	Abs/.1mm	*ASTM D7414		19.2	14.7	15.3
	Base Number (BN)	mg KOH/g	ASTM D2896		6.2	8.3	8.4
	Visc @ 100°C	cSt	ASTM D445	12.00	11.4	11.3	11.5







Certificate L2367

Report Id: LIVBRI [WUSCAR] 06217913 (Generated: 06/25/2024 04:45:29) Rev: 1

Laboratory Sample No.

: LW0009409 Lab Number : 06217913 Unique Number : 11096110 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

: 25 Jun 2024 - Wes Davis Diagnosed

LIV TRANSPORTATION, INC 9809 INDUSTRIAL DRIVE BRIDGEVIEW, IL

US 60455 Contact: BART KORLAGA

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

\* - 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)

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