WEAR CONTAMINATION **FLUID CONDITION**

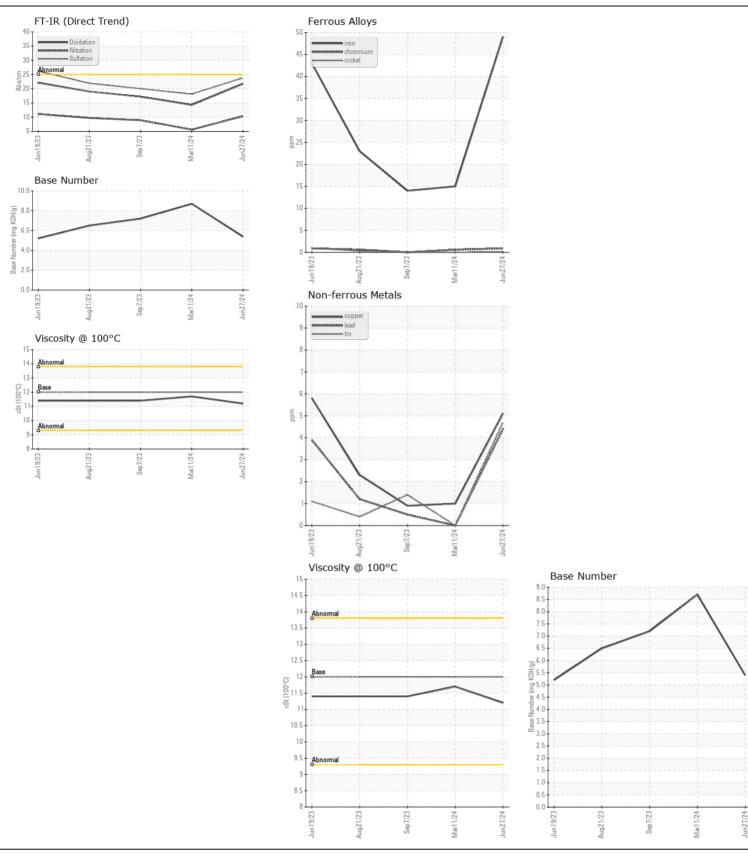
NORMAL NORMAL NORMAL

Machine Id

321

Component
Diesel Engine

PETRO CANADA DURON SHP 10W30 (10 GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LW0009418	LW0008977	LW0007806
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		27 Jun 2024	11 Mar 2024	07 Sep 2023
	Machine Age	mls	Client Info		810995	760673	624000
	Oil Age	mls	Client Info		50322	1000	607000
	Filter Age	mls	Client Info		25000	1000	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	nnm	ASTM D5185m	>100	49	15	14
WLAN	Chromium	ppm	ASTM D5185m		49 <1	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m	24	<1	<1	0
	Silver	ppm	ASTM D5185m	~3	0	0	0
	Aluminum	ppm	ASTM D5185m		8	4	1
	Lead	ppm	ASTM D5185m		4	0	<1
	Copper	ppm	ASTM D5185m		5	1	<1
	Tin	ppm	ASTM D5185m		5	0	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTANUNATION						_	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	5	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		6	3	0
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG NEG
	Glycol Soot %	0/	WC Method *ASTM D7844	. 0	NEG 0.5	NEG 0.2	0.4
	Nitration	% Abs/cm	*ASTM D7624	>20	10.3	5.6	8.9
	Sulfation	Abs/.1mm	*ASTM D7024		23.8	18.1	20.0
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		13	3	8
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		3	8	0
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		56	57	56
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		899	937	1049
	Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m		1123	1194	1164
		ppm			965	1091	1013
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		1250	1261 3256	1301 2873
	Oxidation	ppm Abs/.1mm	*ASTM D5185m		2905 21.7	14.3	17.2
	Base Number (BN)			>20	5.4	8.7	7.2
	Visc @ 100°C	cSt	ASTM D2030	12.00	11.2	11.7	11.4
	¥100 @ 100 O	001	, 10 1 10 1 17 1	12.00	11.2	1 1 . /	11.7







Report Id: LIVBRI [WUSCAR] 06225584 (Generated: 07/03/2024 00:13:47) Rev: 1

Sample No.

Laboratory

Lab Number : 06225584 Unique Number : 11103781

: LW0009418

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Jul 2024

Tested : 03 Jul 2024 Diagnosed : 03 Jul 2024 - Wes Davis LIV TRANSPORTATION, INC 9809 INDUSTRIAL DRIVE

BRIDGEVIEW, IL US 60455

Contact: BART KORLAGA

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

Certificate L2367 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)