



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**336**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (10 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LW0009424</b>	LW0009194	LW0007785
Sample Date		Client Info		<b>27 Jun 2024</b>	06 Jun 2024	05 Mar 2024
Machine Age	mls	Client Info		<b>269489</b>	269489	0
Oil Age	mls	Client Info		<b>50000</b>	50000	0
Filter Age	mls	Client Info		<b>25000</b>	25000	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>8</b>	33	27
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	5
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>7</b>	32	72
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	3
Copper	ppm	ASTM D5185m	>330	<b>4</b>	19	▲ 448
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

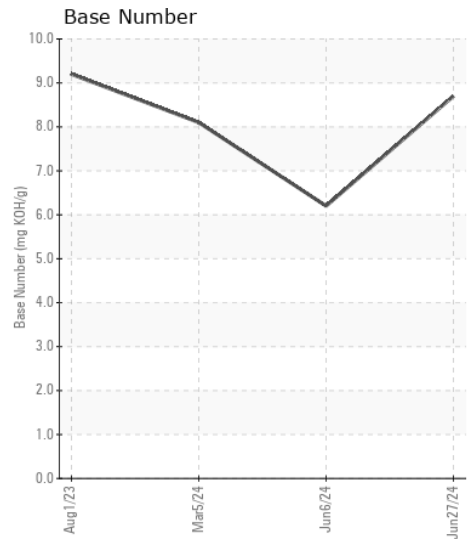
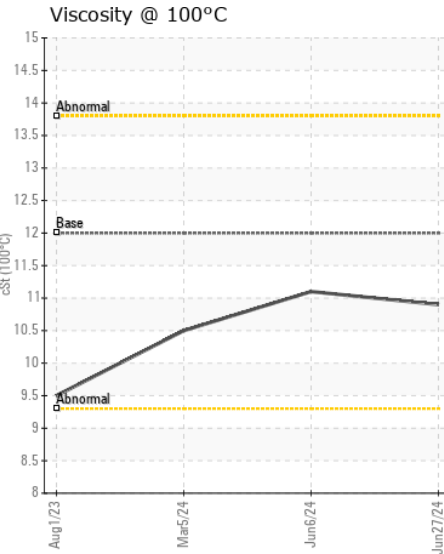
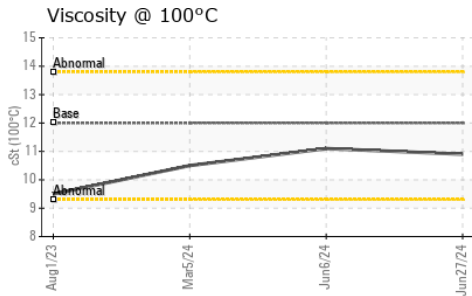
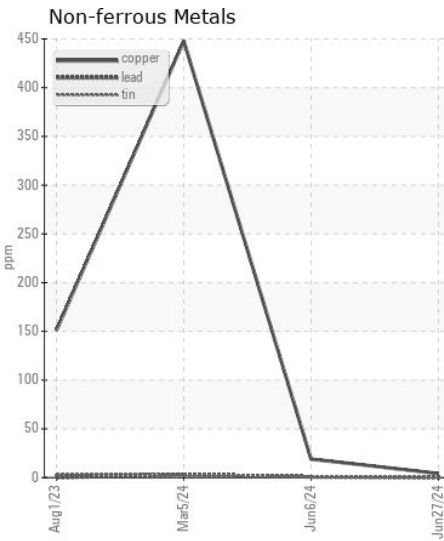
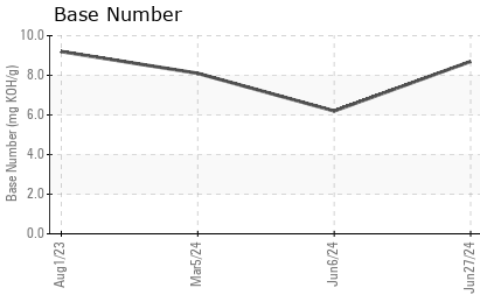
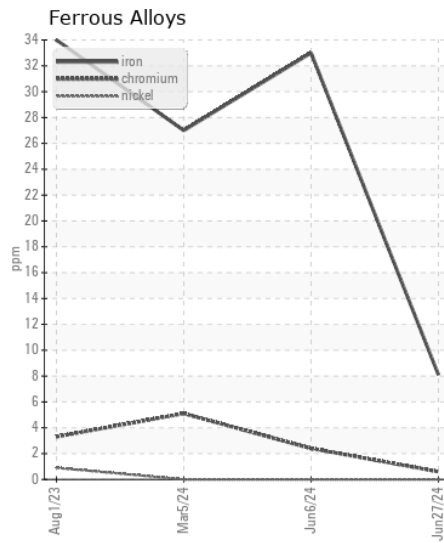
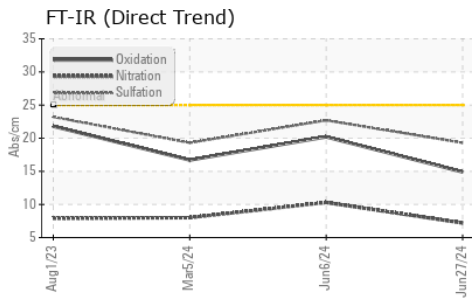
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	7	3
Potassium	ppm	ASTM D5185m	>20	<b>11</b>	58	138
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.8	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.2</b>	10.3	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.3</b>	22.7	19.3
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	4	2
Boron	ppm	ASTM D5185m	2	<b>6</b>	<1	4
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>58</b>	61	56
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	950	<b>934</b>	996	979
Calcium	ppm	ASTM D5185m	1050	<b>1133</b>	1271	1285
Phosphorus	ppm	ASTM D5185m	995	<b>1058</b>	1079	971
Zinc	ppm	ASTM D5185m	1180	<b>1284</b>	1322	1179
Sulfur	ppm	ASTM D5185m	2600	<b>3311</b>	2782	2580
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.9</b>	20.2	16.7
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.7</b>	6.2	8.1
Visc @ 100°C	cSt	ASTM D445	12.00	<b>10.9</b>	11.1	10.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LW0009424  
**Lab Number** : 06225577  
**Unique Number** : 11103774  
**Test Package** : FLEET  
**Received** : 01 Jul 2024  
**Tested** : 03 Jul 2024  
**Diagnosed** : 03 Jul 2024 - Wes Davis

**LIV TRANSPORTATION, INC**  
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 US 60455

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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)