



**LEAHY-WOLF**  
Lubricating specialists since 1946

OIL ANALYSIS REPORT

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

Area

**[AFTER CHANGE]**

Machine Id

**10690750 - UNITED RENTALS CHICAGO HTS**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

We advise that you check for possible coolant leak. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LW05871536</b>	LW05871535	---
Sample Date		Client Info		<b>11 Jun 2023</b>	10 Jun 2023	---
Machine Age	mls	Client Info		<b>0</b>	0	---
Oil Age	mls	Client Info		<b>0</b>	0	---
Filter Age	mls	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>&lt;1</b>	1	---
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>330	<b>1</b>	4	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

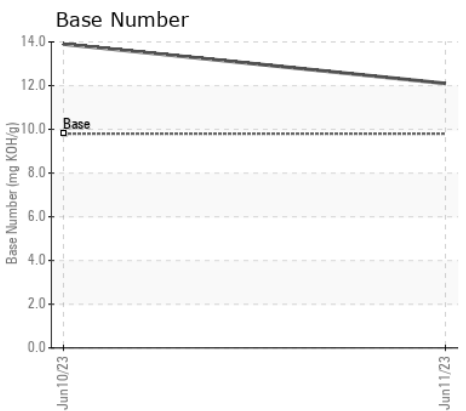
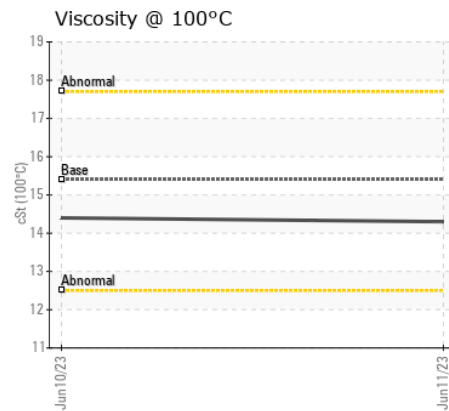
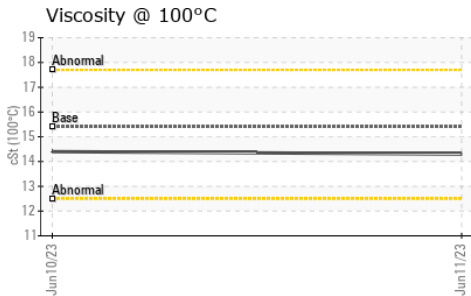
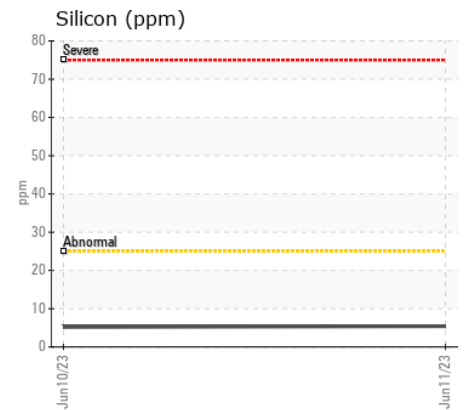
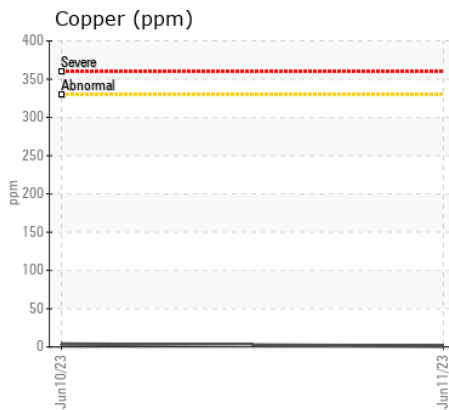
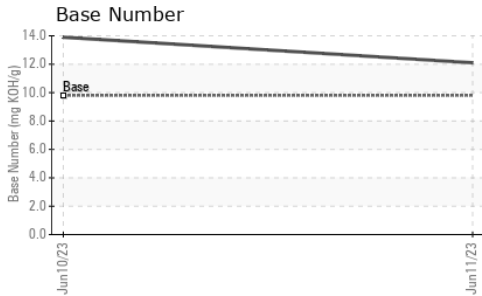
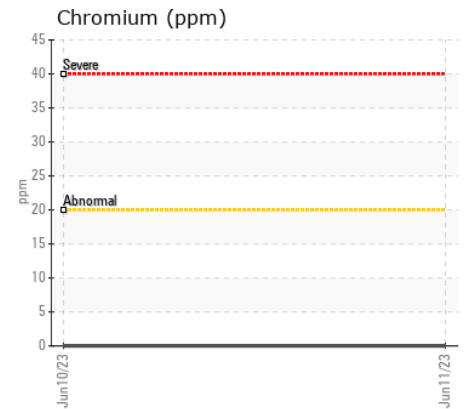
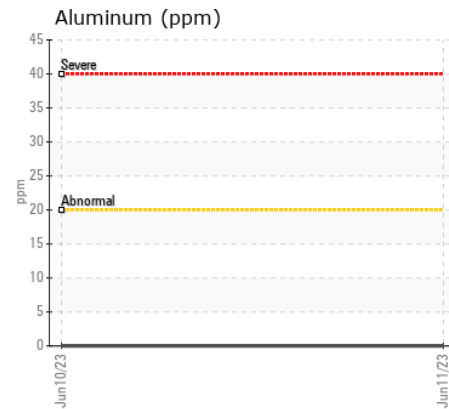
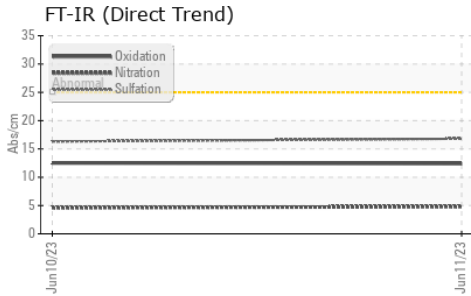
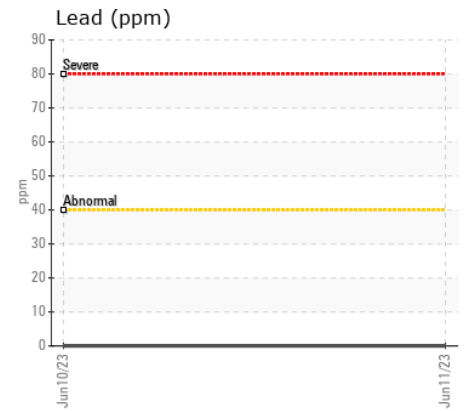
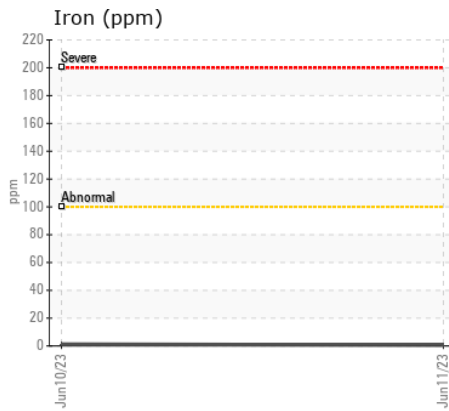
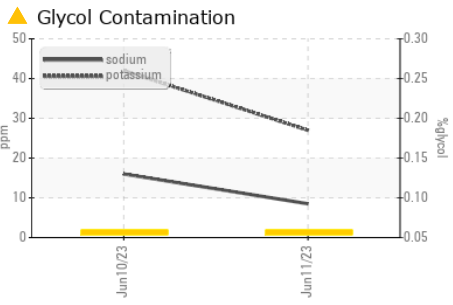
Sodium and/or potassium levels are high. Test for glycol is positive. Trace concentration of anti-freeze present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>▲ 27</b>	▲ 42	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	%	*ASTM D2982		<b>▲ 0.06</b>	▲ 0.06	---
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>4.8</b>	4.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>16.8</b>	16.3	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>8</b>	16	---
Boron	ppm	ASTM D5185m	0	<b>15</b>	16	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	60	<b>58</b>	57	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	1010	<b>965</b>	907	---
Calcium	ppm	ASTM D5185m	1070	<b>1129</b>	1144	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1029</b>	995	---
Zinc	ppm	ASTM D5185m	1270	<b>1272</b>	1266	---
Sulfur	ppm	ASTM D5185m	2060	<b>3897</b>	3801	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.4</b>	12.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>12.1</b>	13.9	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.3</b>	14.4	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LW05871536 **Received** : 12 Jun 2023  
**Lab Number** : 05871536 **Tested** : 14 Jun 2023  
**Unique Number** : 10511320 **Diagnosed** : 14 Jun 2023 - Doug Bogart  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**LEAHY-WOLF COMPANY**  
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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)

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F: