



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
RVBF
Machine Id
1491079
Component
Diesel Engine
Fluid
SHELL 15W40 (48 QTS)

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		RPL0021218	RPL0021229	---
Sample Date		Client Info		08 Jul 2024	29 May 2024	---
Machine Age	mls	Client Info		0	0	---
Oil Age	mls	Client Info		8668	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	13	40	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	6	9	---
Lead	ppm	ASTM D5185m	>40	0	0	---
Copper	ppm	ASTM D5185m	>330	2	5	---
Tin	ppm	ASTM D5185m	>15	<1	1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

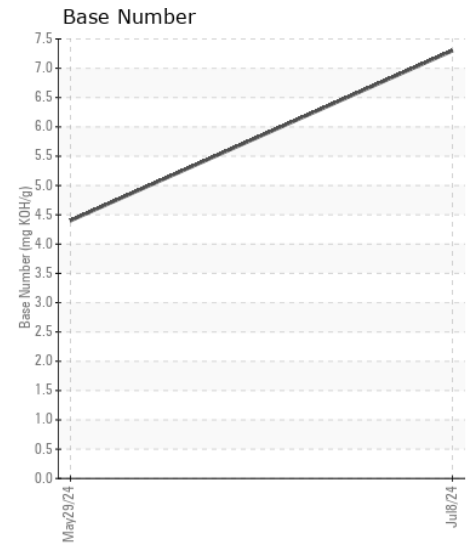
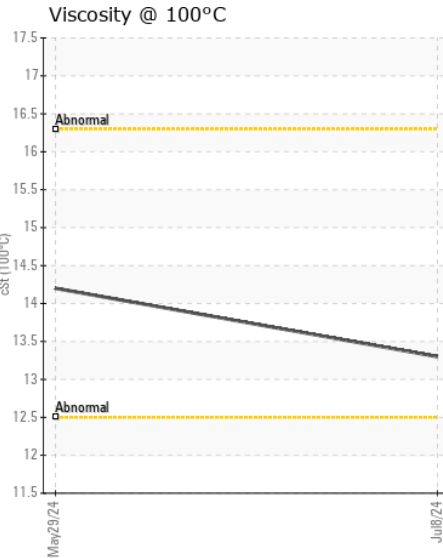
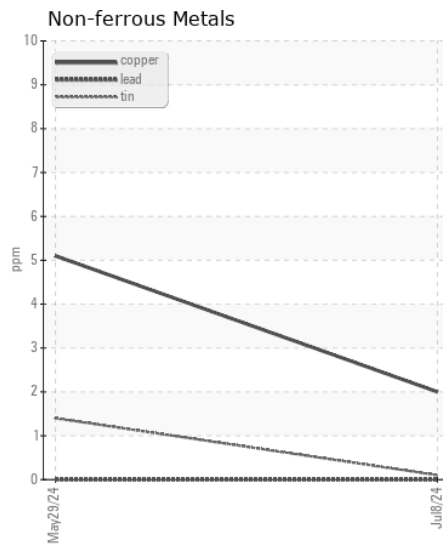
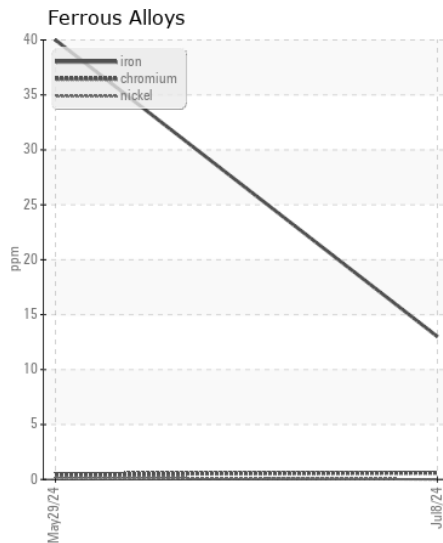
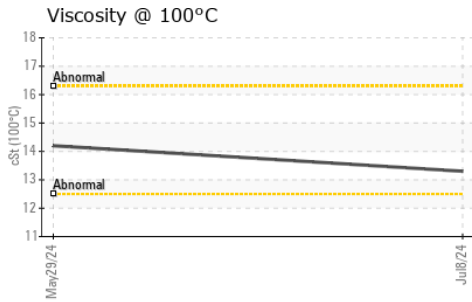
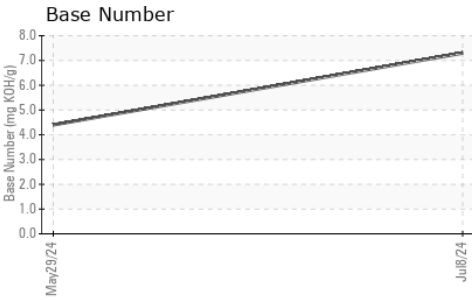
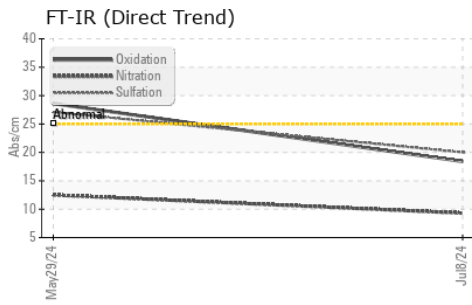
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	10	11	---
Potassium	ppm	ASTM D5185m	>20	8	17	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	9.3	12.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	27.1	---
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	---

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	>150	4	6	---
Boron	ppm	ASTM D5185m		57	36	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		96	72	---
Manganese	ppm	ASTM D5185m		0	1	---
Magnesium	ppm	ASTM D5185m		611	611	---
Calcium	ppm	ASTM D5185m		1470	1549	---
Phosphorus	ppm	ASTM D5185m		803	855	---
Zinc	ppm	ASTM D5185m		933	1012	---
Sulfur	ppm	ASTM D5185m		2760	3107	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	28.6	---
Base Number (BN)	mg KOH/g	ASTM D2896		7.3	4.4	---
Visc @ 100°C	cSt	ASTM D445		13.3	14.2	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0021218 **Received** : 12 Jul 2024
Lab Number : 06234588 **Tested** : 12 Jul 2024
Unique Number : 11123422 **Diagnosed** : 12 Jul 2024 - Wes Davis
Test Package : FLEET

RTL PACLEASE - 7020 - El Pao
 3500 Doniphan Dr
 El Paso, TX
 US 79922
 Contact: JUAN MARTINEZ
 martinezj15@rushenterprises.com

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: