



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
115419
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0033035	IL0032782	---
Sample Date		Client Info		15 May 2024	21 Nov 2023	---
Machine Age	mls	Client Info		37941	19392	---
Oil Age	mls	Client Info		18549	19392	---
Filter Age	mls	Client Info		18549	19392	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	57	116	---
Chromium	ppm	ASTM D5185m	>20	5	4	---
Nickel	ppm	ASTM D5185m	>2	<1	<1	---
Titanium	ppm	ASTM D5185m	>2	<1	0	---
Silver	ppm	ASTM D5185m	>2	1	0	---
Aluminum	ppm	ASTM D5185m	>20	6	9	---
Lead	ppm	ASTM D5185m	>40	<1	0	---
Copper	ppm	ASTM D5185m	>330	7	37	---
Tin	ppm	ASTM D5185m	>15	1	1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

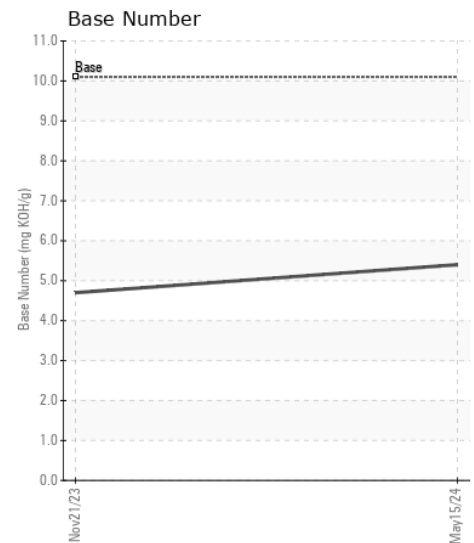
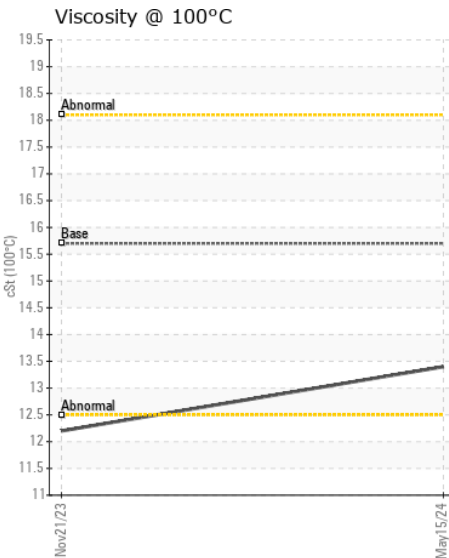
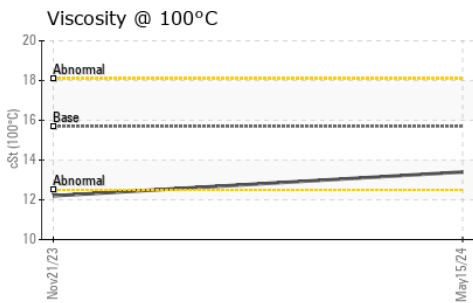
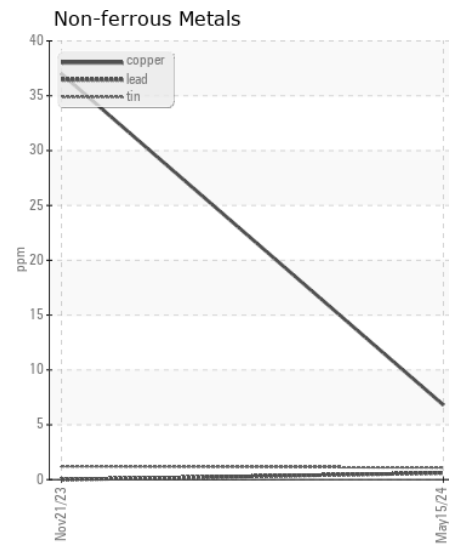
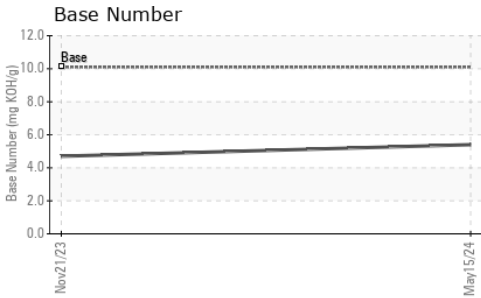
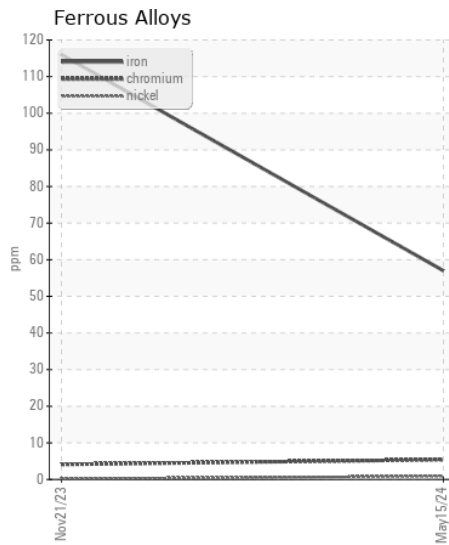
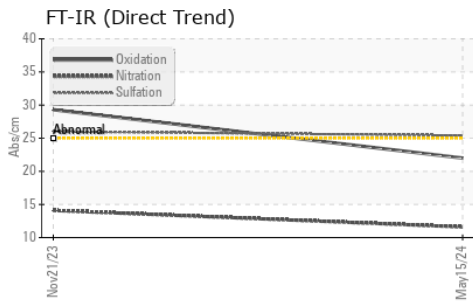
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	15	27	---
Potassium	ppm	ASTM D5185m	>20	13	11	---
Fuel		WC Method	>3.0	<1.0	1.7	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>6	0.7	0.8	---
Nitration	Abs/cm	*ASTM D7624	>20	11.6	14.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4	26.0	---
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		3	9	---
Boron	ppm	ASTM D5185m	316	48	19	---
Barium	ppm	ASTM D5185m	0.0	2	6	---
Molybdenum	ppm	ASTM D5185m	1.2	30	51	---
Manganese	ppm	ASTM D5185m		2	6	---
Magnesium	ppm	ASTM D5185m	24	295	866	---
Calcium	ppm	ASTM D5185m	2292	1913	1310	---
Phosphorus	ppm	ASTM D5185m	1064	899	814	---
Zinc	ppm	ASTM D5185m	1160	1173	978	---
Sulfur	ppm	ASTM D5185m	4996	3032	2207	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.0	29.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.4	4.7	---
Visc @ 100°C	cSt	ASTM D445	15.7	13.4	12.2	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : IL0033035

Lab Number : 06191838

Unique Number : 11048590

Test Package : FLEET

Received : 28 May 2024

Tested : 29 May 2024

Diagnosed : 30 May 2024 - Sean Felton

IDEALISE OF NORTHWEST WI

611 HANSEN ROAD

GREEN BAY, WI

US 54304

Contact: GARY KOLTZ

gkoltz@pcitrucks.com

T: (920)499-6200

F: (920)499-5332

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)