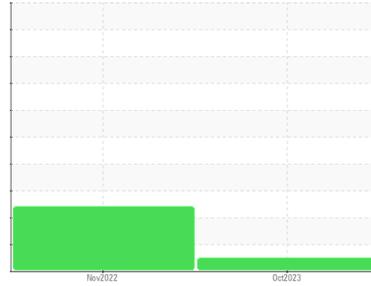




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
114554
 Component
Diesel Engine
 Fluid
SHELL ROTELLA T 15W40 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			IL0032757	IL0027722	---
Sample Date	Client Info			25 Oct 2023	02 Nov 2022	---
Machine Age	mls	Client Info		115604	31626	---
Oil Age	mls	Client Info		41274	31626	---
Oil Changed	Client Info			Changed	Changed	---
Sample Status				NORMAL	SEVERE	---

CONTAMINATION		method	limit/base	current	history1	history2
Glycol	WC Method			NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	23	41	---
Chromium	ppm	ASTM D5185m	>20	2	2	---
Nickel	ppm	ASTM D5185m	>2	<1	<1	---
Titanium	ppm	ASTM D5185m	>2	<1	0	---
Silver	ppm	ASTM D5185m	>2	<1	1	---
Aluminum	ppm	ASTM D5185m	>20	8	36	---
Lead	ppm	ASTM D5185m	>40	4	5	---
Copper	ppm	ASTM D5185m	>330	3	25	---
Tin	ppm	ASTM D5185m	>15	2	3	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	27	49	---
Barium	ppm	ASTM D5185m	0.0	19	0	---
Molybdenum	ppm	ASTM D5185m	1.2	33	59	---
Manganese	ppm	ASTM D5185m		<1	4	---
Magnesium	ppm	ASTM D5185m	24	223	436	---
Calcium	ppm	ASTM D5185m	2292	1747	1616	---
Phosphorus	ppm	ASTM D5185m	1064	896	888	---
Zinc	ppm	ASTM D5185m	1160	1111	1159	---
Sulfur	ppm	ASTM D5185m	4996	3804	3220	---

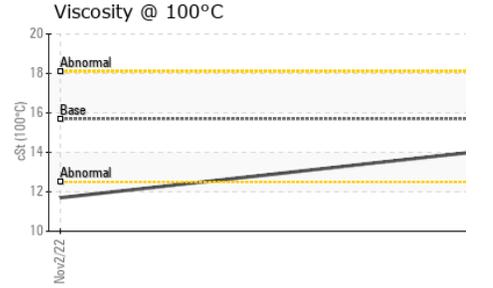
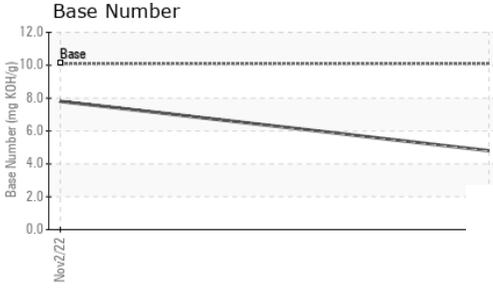
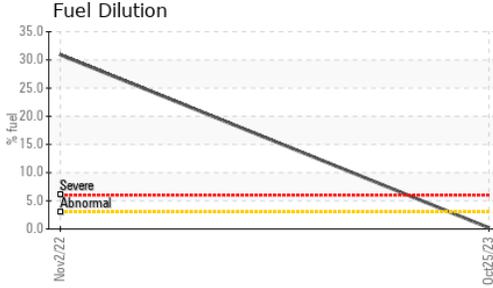
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	36	---
Sodium	ppm	ASTM D5185m		6	4	---
Potassium	ppm	ASTM D5185m	>20	28	91	---
Fuel	%	ASTM D3524	>3.0	0.2	30.9	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	9.7	9.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.4	22.8	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.5	19.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	4.8	7.8	---



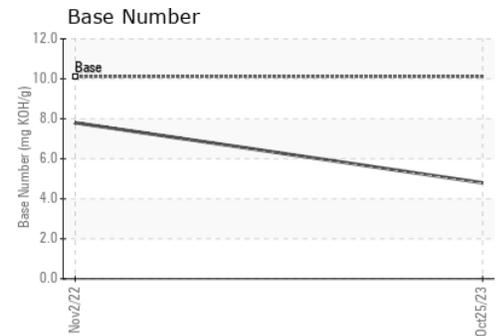
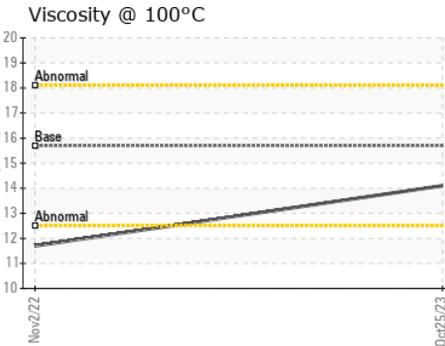
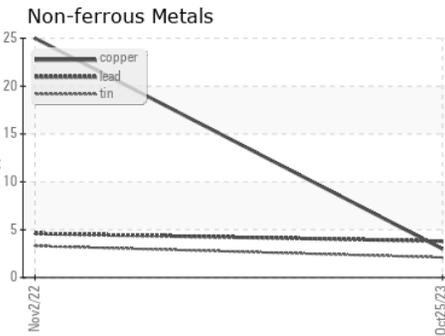
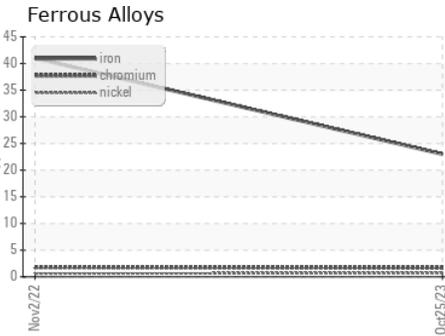
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.7	14.1	▲ 11.7

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0032757 **Received** : 31 Oct 2023
Lab Number : 05993997 **Diagnosed** : 03 Nov 2023
Unique Number : 10722357 **Diagnostician** : Jonathan Hester
Test Package : FLEET (Additional Tests: PercentFuel)

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)