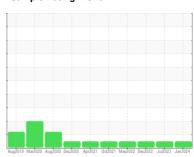


## **OIL ANALYSIS REPORT**

#### Sample Rating Trend



NORMAL



# Machine Id 109296

Component

**Diesel Engine** 

SHELL ROTELLA T 15W40 (--- QTS)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

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.

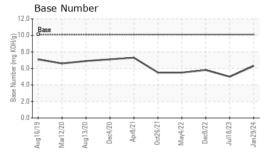
		Aug2019 Mar2	020 Aug2020 Dec2020 Apri	2021 Oct2021 May2022 Dec2022 Jul	2023 Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL0032950	IL0027447	IL0027686
Sample Date		Client Info		29 Jan 2024	18 Jul 2023	08 Dec 2022
Machine Age	mls	Client Info		179893	166047	144541
Oil Age	mls	Client Info		13846	21506	25077
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	16	32	35
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	1
Aluminum	ppm	ASTM D5185m		9	10	18
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m		1	2	3
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium Cadmium	ppm	ASTM D5185m ASTM D5185m		0	<1 0	<1
	ppm					-
ADDITIVES		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m	316	48	27	21
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	1.2	29	91	93
Manganese	ppm	ASTM D5185m	0.4	0	<1	<1
Magnesium	ppm	ASTM D5185m	24	163	46	61
Calcium Phosphorus	ppm	ASTM D5185m	2292 1064	1923 961	2281 949	2312 989
Zinc	ppm	ASTM D5185m	1160	1129	1183	1231
Sulfur	ppm	ASTM D5185m	4996	3238	4090	3796
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	8	9
Sodium	ppm	ASTM D5185m		0	3	3
Potassium	ppm	ASTM D5185m	>20	15	9	25
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	1.2	1.2
Nitration	Abs/cm	*ASTM D7624	>20	11.8	12.8	14.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4	26.6	29.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.9	22.1	23.5
Dogs Number (DNI)	m = 1/011/s	ACTM DODGC	101		_	F 0

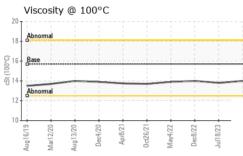
Base Number (BN) mg KOH/g ASTM D2896 10.1

6.3



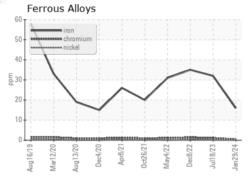
## **OIL ANALYSIS REPORT**

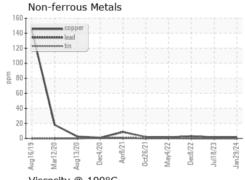


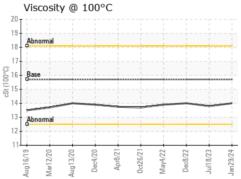


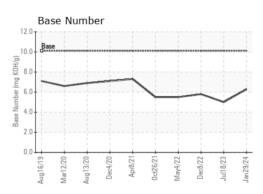
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

FLUID PROPERI	IES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.7	14.0	13.8	14.0













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: IL0032950 : 06076700 : 10858791

Recieved

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 01 Feb 2024 : 02 Feb 2024 Diagnosed Diagnostician : Don Baldridge

**IDEALEASE 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)

Report Id: IDEGREWI [WUSCAR] 06076700 (Generated: 02/02/2024 13:42:13) Rev: 1

Contact/Location: GARY KOLTZ - IDEGREWI