



UIN 04B021C

Diesel Engine

Unit No. TPPNDD1415252001

Unit:

Make John Deere

Model 6155R

Serial No. 1RW6155RCFD022487

Site

Compartment:

Name Diesel Engine

Make

Model

Serial No.

Capacity:

Customer:

DARREL NYHOF

3426 390TH STREET

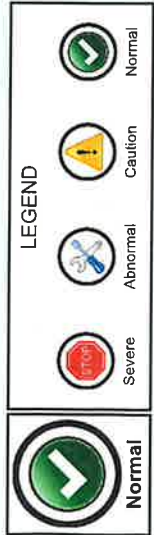
SIOUX CENTER IA 51250

USA

DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range. Action: As oil already changed, resample next service interval to further monitor.

ANALYST: Sam. Smith Kansas City



DATE SAMPLED	13-Mar-24	12-Nov-21	20-May-20	05-Dec-19	14-Sep-18	13-Jul-18
DATE RECEIVED	20-Mar-24	01-Dec-21	02-Jun-20	13-Dec-19	14-Sep-18	20-Jul-18
DATE REPORTED	21-Mar-24	02-Dec-21	03-Jun-20	17-Dec-19	20-Sep-18	23-Jul-18
LAB NO.	43021897144	43021605217	43021406889	43021349142	43021186858	43021165412
SIF NO.	33850924	33850920	33850918	35501788	33850926	33850919
TIME ON UNIT	Hrs	10020	7511	6740	4514	4263
TIME ON OIL	Hrs	500	250			
OIL BRAND	Cenex	Cenex	Cenex	Cenex	Cenex	Cenex
OIL TYPE	Unidentified	Unidentified	Unidentified	Super TMS	Super TMS	Super TMS
OIL GRADE	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40
OIL ADDED						
FILTER	Changed	Changed	Changed	Not Changed	Not Changed	Not Changed
OIL CHANGED						
WO NUMBER			250			
Metals (ppm)						
Iron (Fe)	16	12	13	8	12	9
Chromium (Cr)	<1	<1	<1	<1	<1	<1
Lead (Pb)	1	<1	<1	<1	<1	<1
Copper (Cu)	<1	1	1	1	1	1
Tin (Sn)	<1	<1	<1	<1	<1	<1
Aluminium (Al)	<1	2	1	<1	1	<1
Nickel (Ni)	<1	<1	<1	<1	<1	<1
Silver (Ag)	<1	<1	<1	<1	<1	<1
Titanium (Ti)	<1	<1	<1	<1	<1	<1
Vanadium (V)	<1	<1	<1	<1	<1	<1
Contaminants (ppm)						
Silicon (Si)	2	2	1	3	1	2
Sodium (Na)	3	2	4	2	1	<1
Potassium (K)	2	6	2	<1	<1	<1
Water (%)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Coolant	No	No	No	No	No	No
Additives (ppm)						
Magnesium (Mg)	1044	1010	1034	1035	992	1060
Calcium (Ca)	1102	1116	1125	1138	1005	1088
Barium (Ba)	<1	<1	<1	<1	<1	<1
Phosphorus (P)	1153	1217	1197	1216	1095	1232
Zinc (Zn)	1185	1359	1328	1350	1222	1294
Molybdenum (Mo)	62	68	66	69	64	71
Boron (B)	<5	<5	6	<5	<5	<5
Physical Tests						
Viscosity (cSt 100C)	14.9	14.2	15.2	15.2	14.4	15.0
Fuel (%)	<1	<1	<1	<1	<1	<1
Soot (%) Infrared D7844	0.2	0.2	<0.1	<0.1	<0.1	<0.1
PQ Index	<10	<10	<10	<10	<10	10
Physical / Chemical						
Base number (mgKOH/g)	7.3	7.9	7.7	8.3	8.0	8.2
Acid Number (mgKOH/g)	3.54	2.34	2.19	2.34	3.12	2.39

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Capacity:

Customer:

DARREL NYHOF

3426 390TH STREET

SIoux CENTER IA 51250

USA

DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range. Action: As oil already changed, resample next service interval to further monitor.

ANALYST: Sam. Smith Kansas City



LEGEND

Normal

At

Caution

Normal

DATE SAMPLED	DATE RECEIVED	DATE REPORTED	12-Nov-21	20-May-20	05-Dec-19	14-Sep-18	13-Jul-18	08-Dec-17
DATE RECEIVED	DATE REPORTED		01-Dec-21	02-Jun-20	13-Dec-19	14-Sep-18	20-Jul-18	21-Dec-17
DATE REPORTED			02-Dec-21	03-Jun-20	17-Dec-19	20-Sep-18	23-Jul-18	22-Dec-17
LAB NO.	43021605217	43021406689	43021349142	43021186858	43021165412	43021085557		
SIF NO.	33850920	33850918	35501788	33850926	33850919	33251429		
TIME ON UNIT	10020	7511	6740	4514	4263	3274		
TIME ON OIL	500	250		500		274		
OIL BRAND	Cenex	Cenex	Cenex	Cenex	Cenex	Cenex		
OIL TYPE	Unidentified	Unidentified	Super TMS	Super TMS	Super TMS	Super TMS		
OIL GRADE	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40	SAE 15W40		
OIL ADDED								
FILTER	250	250						
OIL CHANGED	Changed	Changed	Not Changed	Not Changed	Not Changed	Not Changed		
WO NUMBER								
Metals (ppm)								
Iron (Fe)	12	13	8	12	9	7		
Chromium (Cr)	<1	<1	<1	<1	<1	<1		
Lead (Pb)	<1	<1	<1	<1	<1	<1		
Copper (Cu)	1	1	1	1	1	<1		
Tin (Sn)	<1	<1	<1	<1	<1	<1		
Aluminium (Al)	2	1	<1	1	<1	<1		
Nickel (Ni)	<1	<1	<1	<1	<1	<1		
Silver (Ag)	<1	<1	<1	<1	<1	<1		
Titanium (Ti)	<1	<1	<1	<1	<1	<1		
Vanadium (V)	<1	<1	<1	<1	<1	<1		
Contaminants (ppm)								
Silicon (Si)	2	1	3	1	2	2		
Sodium (Na)	2	4	2	1	<1	<1		
Potassium (K)	6	2	<1	<1	<1	1		
Water (%)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		
Coolant	No	No	No	No	No	No		
Additives (ppm)								
Magnesium (Mg)	1010	1034	1035	992	1060	1100		
Calcium (Ca)	1116	1125	1138	1005	1088	1129		
Barium (Ba)	<1	<1	<1	<1	<1	<1		
Phosphorus (P)	1217	1197	1216	1095	1232	1216		
Zinc (Zn)	1359	1328	1350	1222	1294	1353		
Molybdenum (Mo)	68	66	69	64	71	67		
Boron (B)	<5	6	<5	<5	<5	<5		
Physical Tests								
Viscosity (cSt 100C)	14.2	15.2	15.2	14.4	15.0	19.2		
Fuel (%)	<1	<1	<1	<1	<1	<1		
Soot (%) Infrared	0.2	<0.1	<0.1	<0.1	<0.1	0.2		
PQ Index	<10	<10	<10	<10	10	15		
Physical / Chemical								
Base Number (mgKOH/g)	7.9	7.7	8.3	8.0	8.2	9.2		
Acid Number (mgKOH/g)	2.34	2.19	2.34	3.12	2.39	2.01		



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Compartment:

Name Diesel Engine

Make

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Serial No.

Capacity:

Customer:

DARREL NYHOF

3426 390TH STREET

SIOUX CENTER IA 51250

USA

DIAGNOSIS

All wear rates normal. Abrasive and other contaminant levels are acceptable. Viscosity within specified operating range.

Action: Resample next recommended service interval to further monitor.

ANALYST: LeDonna.Neu



DATE SAMPLED
DATE RECEIVED
DATE REPORTED

23-Sep-16

03-Oct-16

04-Oct-16

13-Jan-16

21-Jan-16

25-Jan-16

LAB NO.

43020898081

43020794250

SIF NO.

30695863

18268878

TIME ON UNIT

Hrs

1500

TIME ON OIL

Hrs

490

OIL BRAND

Cenex

John Deere

OIL TYPE

Super TMS

Unidentified

OIL GRADE

SAE 15W40

SAE 15W40

OIL ADDED

SAE 15W40

FILTER

SAE 15W40

OIL CHANGED

Changed

Not Changed

WO NUMBER

Metals (ppm)

Iron (Fe)

18

32

Chromium (Cr)

1

1

Lead (Pb)

<1

2

Copper (Cu)

8

545

Tin (Sn)

<1

1

Aluminum (Al)

1

2

Nickel (Ni)

<1

2

Silver (Ag)

<1

<1

Titanium (Ti)

<1

<1

Vanadium (V)

<1

<1

Contaminants (ppm)

Silicon (Si)

2

7

Sodium (Na)

<1

7

Potassium (K)

<1

5

Water (%)

<0.05

<0.05

Coolant

No

No

Additives (ppm)

Magnesium (Mg)

1128

939

Calcium (Ca)

1247

1553

Barium (Ba)

<1

1

Phosphorus (P)

1220

1041

Zinc (Zn)

1400

1201

Molybdenum (Mo)

70

316

Boron (B)

<5

271

Physical Tests

Viscosity (cSt 100C)

13.5

10.0

Fuel (%)

1

<1

Soot (%) Infrared

0.1

0.2

PQ Index

14

<10

Physical / Chemical

Base Number (mgKOH/g)

7.9

5.5

Acid Number (mgKOH/g)

2.23

3.04



TOTAL PROTECTION PLAN® WARRANTY

**CENEX TOTAL PROTECTION PLAN® WARRANTY FOR NEW EQUIPMENT
RETAIN THIS LETTER FOR YOUR RECORDS**

Owner:	DARREL NYHOF 3426 - 390TH STREET SIOUX CENTER, IA 51250
Association:	COOP GAS & OIL CO PO BOX 137 153 N MAIN AVE SIOUX CENTER, IA 51250-0137
TPP Plan No:	TPPND1415252001
Make:	John Deere
Serial No:	1RW6155RCFD022487
Fuel Type:	Diesel
Model:	6155R
Effective Date:	9/3/2015

**This Cenex Total Protection Plan® Warranty applies to the
following components and coverage period:**

10 years/10,000 hours* Superlube TMS® or Superlube 518®, Engine Coverage
10 years/10,000 hours* Ruby Fieldmaster® and Ruby Fieldmaster B2® or B5® pump with 5 years/5,000 hours Injector
Coverage (available through authorized Ruby Fieldmaster® Distributors only)
10 years/10,000 hours* Qwiklube® HTB®, BioMax™ THF or Power Transmission Fluid, Transmission/Hydraulic/Final
Drive Coverage
6 years/ 6,000 hours Maxtron® THF+, Qwiklube® HTB®, Maxtron® GL or MP Gear Lube, Differential/Hubs Coverage

**Welcome to the Cenex Total Protection Plan® Warranty program!
Enclosed are valuable coupons.**

Dear Darrel Nyhof:

Congratulations on your enrollment in the Cenex Total Protection Plan® Warranty program. As a new program member, you understand the importance of protecting your valuable equipment investment with the best warranty program of its kind in agriculture. And you have the peace of mind that comes with using only Cenex brand lubricants and fuels, knowing that specific components in your equipment will be covered for the duration of your warranty term.

We have enclosed four \$50 coupons (one at the bottom of this page), for your use over the next two years on purchases of Ruby Fieldmaster® Premium Diesel fuels, eligible Cenex brand lubricants and LubeScan® kits. The Cenex coupons are just part of the many exceptional benefits you'll receive through the Cenex Total Protection Plan® Warranty program, simply by keeping your warranty active. Read on to learn more about this valuable program.

over please

