

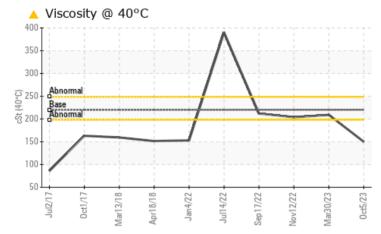
# **PROBLEM SUMMARY**

# Machine Id NATIONAL OILWELL RIG 55-B DRAWWORKS - 059088 Component

Gearbox

# ROYAL PURPLE SYNFILM GT220 (--- GAL)

# COMPONENT CONDITION SUMMARY



## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status				ATTENTION	NORMAL	ATTENTION				
Visc @ 40°C	cSt	ASTM D445	220	<u> </u>	209	<u> </u>				

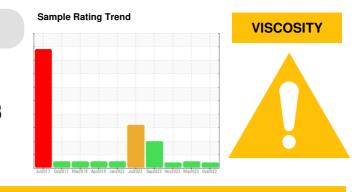
Customer Id: PARNEWLA Sample No.: RP0031832 Lab Number: 05979814 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



#### **RECOMMENDED ACTIONS**

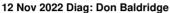
There are no recommended actions for this sample.

# **HISTORICAL DIAGNOSIS**

# 30 Mar 2023 Diag: Wes Davis



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity. filter type and micron rating with next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

17 Sep 2022 Diag: Don Baldridge

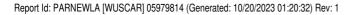


No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a light concentration of water present in the oil. Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.





view report





# **OIL ANALYSIS REPORT**

# Sample Rating Trend VISCOSITY SAMPLE INFORMATION method

current

history1

limit/base

# Machine Ic NATIONAL OILWELL RIG 55-B DRAWWORKS - 059088 Component

Gearbox Fluid

**ROYAL PURPLE SYNFILM GT220 (--- GAL)** 

# DIAGNOSIS

# Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

# Wear

All component wear rates are normal.

# Contamination

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

#### Fluid Condition

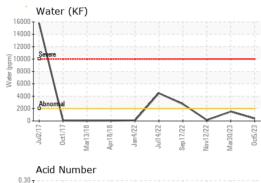
Viscosity of sample indicates oil is within ISO 150 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

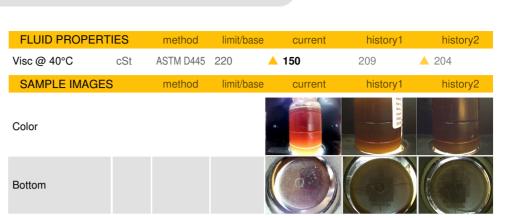
0.000 22 000 0000		mounou	iiiiii/basc	current	Thistory	matoryz
Sample Number		Client Info		RP0031832	RP0022141	RP0027770
Sample Date		Client Info		05 Oct 2023	30 Mar 2023	12 Nov 2022
Machine Age	hrs	Client Info		0	9242	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	9	39	41
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	1
Lead	ppm	ASTM D5185m	>100	<1	0	0
Copper	ppm	ASTM D5185m		2	2	2
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		2	2	4
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	90	4	6	2
Calcium	ppm	ASTM D5185m		<1	12	17
Phosphorus	ppm	ASTM D5185m		37	27	26
Zinc	ppm	ASTM D5185m		7	23	27
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	4	5
Sodium	ppm	ASTM D5185m		2	16	13
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water	%	ASTM D6304	>0.2	0.038	0.151	0.015
ppm Water	ppm	ASTM D6304	>2000	388.8	1510	159.1
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	0.174	0.141	0.082
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	LIGHT	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	0.2%	NEG
Free Water	scalar	*Visual		NEG	RENTEGARLIN	E - PARECHEWLA

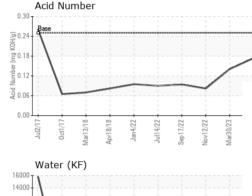
history2

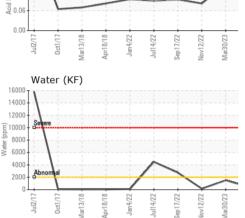


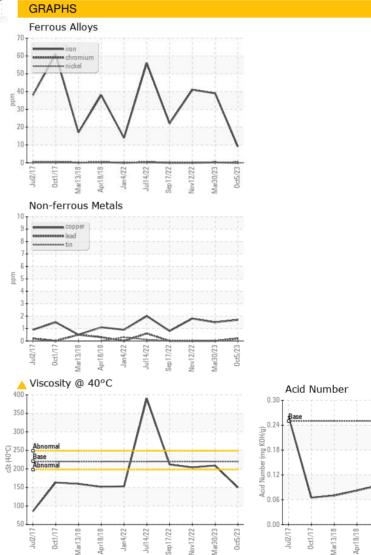
# **OIL ANALYSIS REPORT**













Water

Test Package : IND 2 Certificate L2367 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)

: RP0031832

: 05979814

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

: 16 Oct 2023

: 19 Oct 2023

Diagnostician : Jonathan Hester

Received

Diagnosed

PARKER WELLBORE 1110 UNIFAB RD NEW IBERIA, LA US 70560 Contact: BRENT CARLINE brent.carline@parkerwellbore.com T: (337)364-3122 F: (337)364-0232

Sep17/22

Vov12/22 Mar30/23

Laboratory

Sample No.

Lab Number

Unique Number : 10697109

Jan4/22

Jul14/22

Dct5/23