

## **OIL ANALYSIS REPORT**

Sample Rating Trend



### Area [21705] Machine Id 80-151

#### Component Diesel Engine

Fluid CONOCO PHILLIPS GUARDOL ECT 15W40 (9 QTS)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Wix oil filter 57085 micron 30 )

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

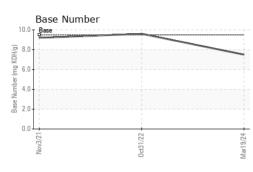
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

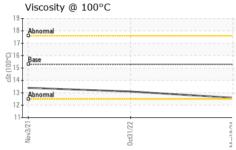
Nov2021 0ct2022 Mad2024						
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0923322	WC0709375	WC0601525
Sample Date		Client Info		19 Mar 2024	31 Oct 2022	03 Nov 2021
Machine Age	hrs	Client Info		3325	2802	2524
Oil Age	hrs	Client Info		522	279	283
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	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	10	7	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	1
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	1	1	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Antimony	ppm	ASTM D5185m				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	85	73	79	100
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		18	3	13
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	350	611	675	632
Calcium	ppm	ASTM D5185m	1800	1537	1388	1442
Phosphorus	ppm	ASTM D5185m	1000	934	965	1024
Zinc	ppm	ASTM D5185m	1100	1220	1192	1194
Sulfur	ppm	ASTM D5185m	3500	3727	3975	2928
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	2
Sodium	ppm	ASTM D5185m		2	3	3
Potassium	ppm	ASTM D5185m	>20	4	1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.2	8.7	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	20.9	19.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	14.1	14
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	7.5	9.6	9.2
7:51:47) Rev: 1			Submitted By: JAMES STEELMON			

Submitted By: JAMES STEELMON



# **OIL ANALYSIS REPORT**





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Laboratory

Sample No.

Lab Number : 06134751

Nov3/21

: WC0923322

Non-ferrous Metals

lead

Viscosity @ 100°C

history2 NONE NONE NONE NONE
NONE NONE NONE
NONE
NONE
NONE
NONE
NORML
NORML
NEG
NEG
history2
13.4

Mar19/24

Aar19/7

Mar19/24 -

: 01 Apr 2024

: 02 Apr 2024

10.0

8 (mg KOH/g)

6 umber 4 ( Base

0.0

Nov3/71

Base Number



Unique Number : 10954216 Diagnosed : 03 Apr 2024 - Don Baldridge Test Package : CONST (Additional Tests: TBN) Contact: BEN CALDWELL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. kevin.marson@wearcheck.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (918)728-5749 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

0ct31/22

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

Received

Tested

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MANHATTAN ROAD AND BRIDGE

5601 S 122ND E AVE

TULSA, OK

US 74146

0ct31/22 -

9/24

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