

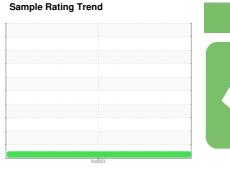
# **OIL ANALYSIS REPORT**

TULSA [19492] 86-02

Component

**Diesel Engine** 

**CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)** 





## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the

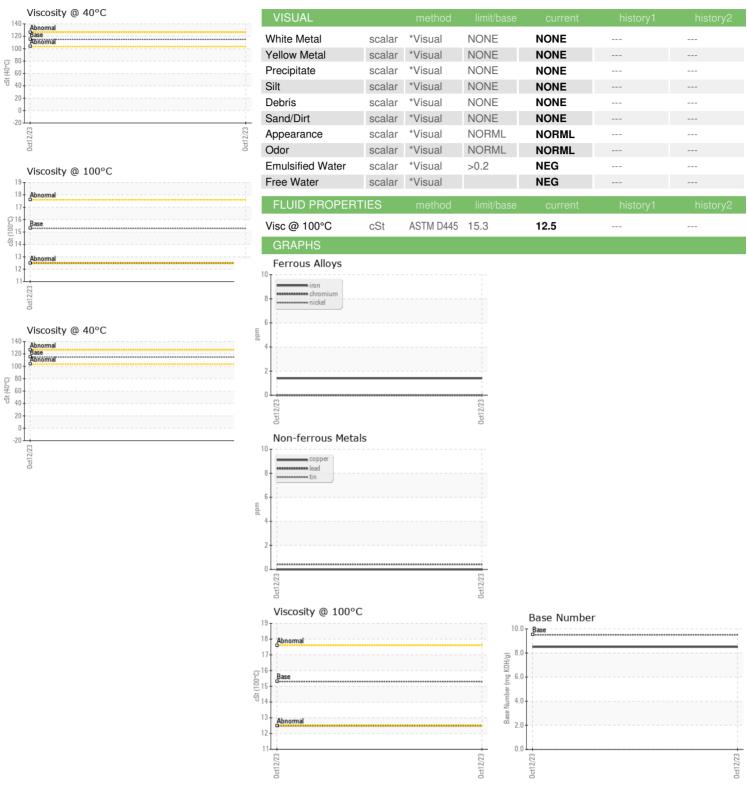
## **Fluid Condition**

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

) ( GAL)				0ct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0818782		
Sample Date		Client Info		12 Oct 2023		
Machine Age	hrs	Client Info		3873		
Oil Age	hrs	Client Info		250		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	1		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		2		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	1		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	0		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	70		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		6		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	350	621		
Calcium	ppm	ASTM D5185m	1800	1267		
Phosphorus	ppm	ASTM D5185m	1000	948		
Zinc	ppm	ASTM D5185m	1100	1091		
Sulfur	ppm	ASTM D5185m	3500	3378		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	5.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.0		
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.0		
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	8.5		



# **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number Unique Number

: WC0818782 : 06010102 : 10749246

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

Diagnostician : Don Baldridge

: 16 Nov 2023

: 20 Nov 2023

Test Package : CONST ( Additional Tests: KV40, TBN ) 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)

**MANHATTAN ROAD AND BRIDGE** 

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