

# **OIL ANALYSIS REPORT**

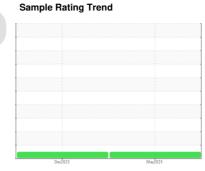
TULSA [23623]

20-100

Component

Diesel Engine

**CONOCO PHILLIPS GUARDOL ECT 15W40 (42 QTS)** 





### 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

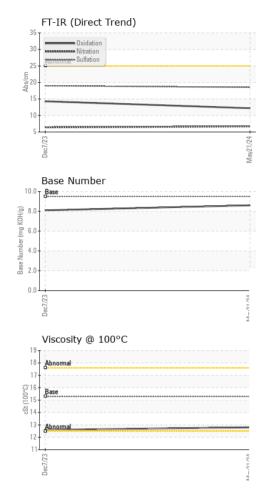
## **Fluid Condition**

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

(42 010)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0940712	WC0836221	
Sample Date		Client Info		21 May 2024	07 Dec 2023	
Machine Age	hrs	Client Info		1464	1226	
Oil Age	hrs	Client Info		238	250	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	4	4	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		1	5	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	<1	2	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	1	1	
Tin	ppm	ASTM D5185m	>15	0	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	95	156	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		2	21	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m	350	648	273	
Calcium	ppm	ASTM D5185m	1800	1475	1802	
Phosphorus	ppm	ASTM D5185m	1000	1051	905	
Zinc	ppm	ASTM D5185m	1100	1239	1062	
Sulfur	ppm	ASTM D5185m	3500	4364	3402	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	2	
Sodium	ppm	ASTM D5185m		<1	2	
Potassium	ppm	ASTM D5185m	>20	2	5	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	19.0	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.2	14.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	8.6	8.1	



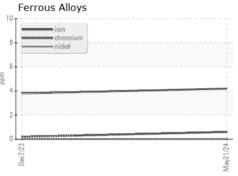
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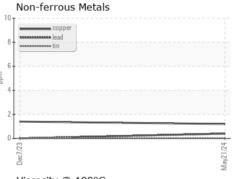


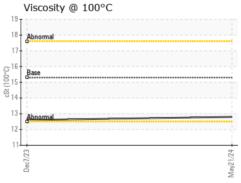
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
ELLIID DDODED.	TIEC	mothod	limit/bass	ourront	hiotory1	hiotory

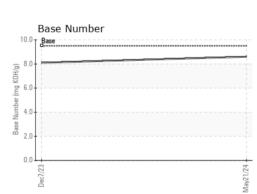
FLUID PROPER	TIES	method	limit/base		history1	history2
Visc @ 100°C	cSt	ASTM D445	15.3	12.8	12.6	

## GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06217901

: WC0940712 Unique Number : 11096098

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package : CONST ( Additional Tests: TBN )

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

Received **Tested** Diagnosed

: 24 Jun 2024 : 25 Jun 2024

: 25 Jun 2024 - Wes Davis

US 74146 Contact: BEN CALDWELL kevin.marson@wearcheck.com T: (918)728-5749

5601 S 122ND E AVE

**MANHATTAN ROAD AND BRIDGE** 

\* - 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) TULSA, OK