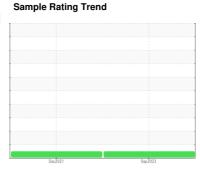


# **OIL ANALYSIS REPORT**

Area [18578] 20-20

Component **Diesel Engine** 

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





## DIAGNOSIS 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

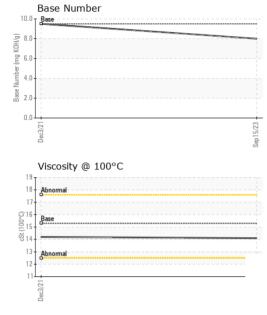
### **Fluid Condition**

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

) ( GAL)			Dec2021	Sep 2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0818625	WC0601535	
Sample Date		Client Info		15 Sep 2023	03 Dec 2021	
Machine Age	hrs	Client Info		7972	7610	
Oil Age	hrs	Client Info		362	152	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	10	6	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	
Lead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	<1	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Antimony	ppm	ASTM D5185m			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	101	114	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		2	8	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	350	638	720	
Calcium	ppm	ASTM D5185m	1800	1411	1399	
Phosphorus	ppm	ASTM D5185m	1000	1099	1096	
Zinc	ppm	ASTM D5185m	1100	1273	1235	
Sulfur	ppm	ASTM D5185m	3500	4100	3512	
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	
Sodium	ppm	ASTM D5185m		3	2	
Potassium	ppm	ASTM D5185m	>20	4	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	7.0	6.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	19.2	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.1	13.2	
Base Number (BN)		ASTM D2896	9.5	8.0	9.5	
(=11)	3 9			-		



## **OIL ANALYSIS REPORT**

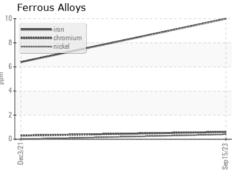


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	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	
FLUID PROPER	ΓIES	method	limit/base	current	history1	history2

14.1

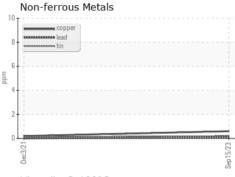
14.2

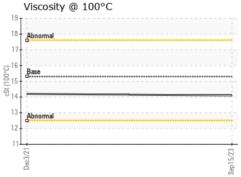
Visc @ 100°C
CBABHS

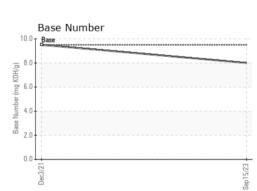


cSt

ASTM D445 15.3











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10674852

: WC0818625 : 05968301

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

: 03 Oct 2023 Diagnosed

: 04 Oct 2023 Diagnostician : Wes Davis

Test Package : CONST ( Additional Tests: 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.

US 74146 Contact: BEN CALDWELL

MANHATTAN ROAD AND BRIDGE

kevin.marson@wearcheck.com

T: (918)728-5749

5601 S 122ND E AVE

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

TULSA, OK