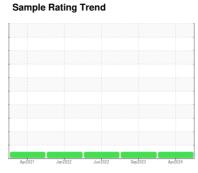


# **OIL ANALYSIS REPORT**

Area [22462] 30-42

**Diesel Engine** 

### **CONOCO PHILLIPS GUARDOL ECT 15W40**





### DIAGNOSIS

#### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

#### Wear

All component wear rates are normal.

#### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

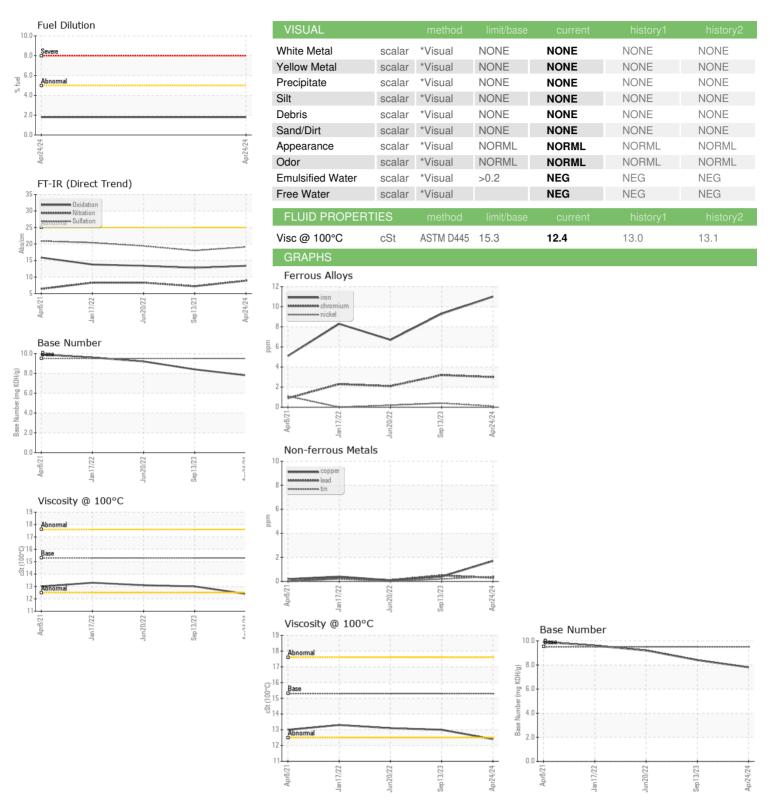
#### **Fluid Condition**

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

0 ( GAL)		Apr2021	Jan2022	Jun2022 Sep2023	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0923346	WC0818626	WC0619254
Sample Date		Client Info		24 Apr 2024	13 Sep 2023	20 Jun 2022
Machine Age	hrs	Client Info		4709	4361	4097
Oil Age	hrs	Client Info		348	264	3845
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
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	11	9	7
Chromium	ppm	ASTM D5185m	>20	3	3	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	2
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	80	42	93
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		6	31	9
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	350	754	830	706
Calcium	ppm	ASTM D5185m	1800	1336	1173	1275
Phosphorus	ppm	ASTM D5185m	1000	998	1089	989
Zinc	ppm	ASTM D5185m	1100	1244	1267	1215
Sulfur	ppm	ASTM D5185m	3500	4038	3644	3488
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	5
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	3	3	0
Fuel	%	ASTM D3524	>5	1.8	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.9	7.2	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	18.0	19.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	12.8	13.4



## **OIL ANALYSIS REPORT**







Certificate 12367

Sample No.

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0923346 Lab Number : 06207301 Unique Number : 11074762

**Tested** : 18 Jun 2024 Diagnosed

: 18 Jun 2024 - Wes Davis Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

Received

: 11 Jun 2024

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

 $^st$  - 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

5601 S 122ND E AVE TULSA, OK

US 74146 Contact: BEN CALDWELL kevin.marson@wearcheck.com

T: (918)728-5749

Submitted By: JAMES STEELMON