

# **OIL ANALYSIS REPORT**

Sample Rating Trend **WEAR** 

Machine Id 98

Component **Diesel Engine** 

CONOCO PHILLIPS GUARDOL ECT 15W40 (--- Oz)

### **DIAGNOSIS**

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

An increase in the iron level is noted. All other 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 acceptable for the time in service.

Jan2021 Feb.2022 May2022 Sup2022 Sup2023 May2023 May2023 May2023 May2023 May2023 May2023 May2023 May2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0028071	PCA0083458	PCA0083481
Sample Date		Client Info		07 Nov 2023	27 Jun 2023	24 Mar 2023
Machine Age	mls	Client Info		0	634596	914
Oil Age	mls	Client Info		0	0	914
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS method limit/base current history1 history2						
Iron	ppm	ASTM D5185m	>100	<u> </u>	65	10
Chromium	ppm	ASTM D5185m	>20	2	2	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	4	2
Lead	ppm	ASTM D5185m	>40	2	1	<1
Copper	ppm	ASTM D5185m	>330	5	5	1
Tin	ppm	ASTM D5185m	>15	<1	1	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	3	1	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		53	60	59
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	350	886	907	1006
Calcium	ppm	ASTM D5185m	1800	965	1073	1077
Phosphorus	ppm	ASTM D5185m	1000	842	994	1082
Zinc	ppm	ASTM D5185m	1100	1128	1180	1321
Sulfur	ppm	ASTM D5185m	3500	2802	2817	4083
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	17	4
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	2	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.2	1.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.7	7.8	4.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	21.5	18.0
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	16.1	13.0
Base Number (BN)	mg KOH/g	ASTM D2896		6.8	8.5	9.3
	0					



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: PCA0028071 : 06002088 : 10735850

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

Diagnosed Diagnostician Test Package : MOB 1 ( Additional Tests: TBN )

: 08 Nov 2023 : 10 Nov 2023 : Angela Borella

US 67042 Contact: LOREN JACK loren@hogoboom.net

T:

767 OIL HILL ROAD

EL DORADO, KS

F: (316)321-1396

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)