

# **OIL ANALYSIS REPORT**

# Sample Rating Trend

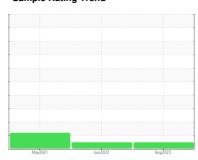
# NORMAL



Area [18626] Machine Id 50-72 Component

Diesel Engine

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





### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wası

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil

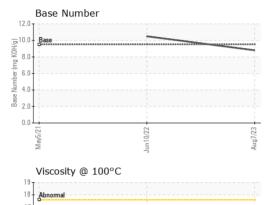
## **Fluid Condition**

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

	•	Ma	y2021	Jun2022 Aug20	123	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0818653	WC0709399	WC0549112
Sample Date		Client Info		07 Aug 2023	10 Jun 2022	05 May 2021
Machine Age	hrs	Client Info		4388	4168	4069
Oil Age	hrs	Client Info		220	99	250
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	٧	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	8	6	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	2
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	2	3
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	68	87	62
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		11	2	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	350	736	690	747
Calcium	ppm	ASTM D5185m	1800	1540	1291	1413
Phosphorus	ppm	ASTM D5185m	1000	1074	1055	1113
Zinc	ppm	ASTM D5185m	1100	1275	1244	1275
Sulfur	ppm	ASTM D5185m	3500	4423	3874	3429
CONTAMINANTS method limit/base current history1 history2						history2
Silicon	ppm	ASTM D5185m	>25	5	5	5
Sodium	ppm	ASTM D5185m		5	4	10
Potassium	ppm	ASTM D5185m	>20	10	22	▲ 50
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.7	8.0	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	20.9	22.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	13.6	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	8.8	10.5	
( )	0 - 0					

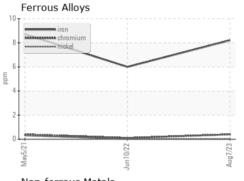


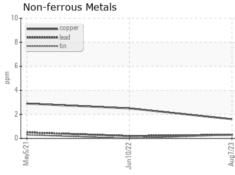
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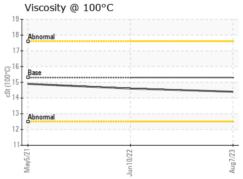


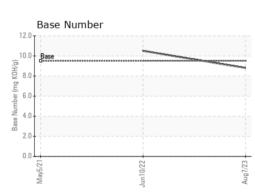
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/hase	current	history1	history2

FLUID PROPER	HES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.3	14.4	14.6	14.9













Laboratory Sample No. Lab Number Unique Number : 10608638

: 05928691

: WC0818653

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Aug 2023 Diagnosed

: 20 Aug 2023

Diagnostician : Wes Davis

Test Package : CONST ( Additional Tests: TBN )

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

**MANHATTAN ROAD AND BRIDGE** 

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

T: (918)728-5749

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