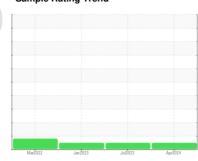


# **OIL ANALYSIS REPORT**

Sample Rating Trend







20-69
Component
Diesel Engine

Machine Id

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

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil

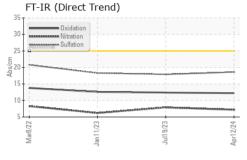
### **Fluid Condition**

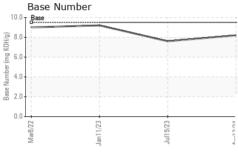
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

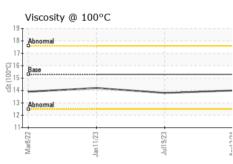
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0766493	WC0818664	WC0754779
Sample Date		Client Info		12 Apr 2024	19 Jul 2023	11 Jan 2023
Machine Age	hrs	Client Info		13459	12621	11679
Oil Age	hrs	Client Info		13459	942	337
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
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	6	3	4
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	9	4	5
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	1	0	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
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	86	72	62
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		5	46	22
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	350	678	400	813
Calcium	ppm	ASTM D5185m	1800	1302	1898	1226
Phosphorus	ppm	ASTM D5185m	1000	1077	1060	1084
Zinc	ppm	ASTM D5185m	1100	1179	1310	1265
Sulfur	ppm	ASTM D5185m	3500	4052	4695	4432
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	3	4
Sodium	ppm	ASTM D5185m		2	1	1
Potassium	ppm	ASTM D5185m	>20	4	4	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.9	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	17.9	18.3
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.2	12.4	12.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	8.2	7.6	9.2

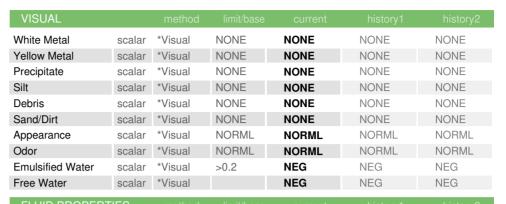


## **OIL ANALYSIS REPORT**



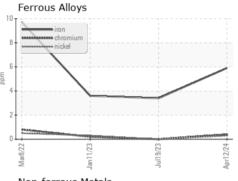


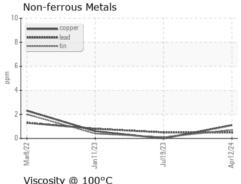


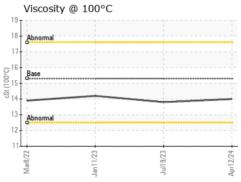


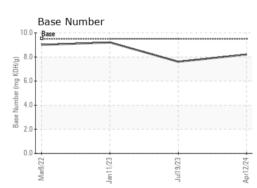
FLUID PROPERTIES			method	iimivbase		nistory i	nistoryz	
	Visc @ 100°C	cSt	ASTM D445	15.3	14.0	13.8	14.2	

#### **GRAPHS**













Laboratory Sample No.

: WC0766493 Lab Number : 06155090 Unique Number : 10990513

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

Received **Tested** Diagnosed

: 19 Apr 2024 : 22 Apr 2024

: 22 Apr 2024 - Wes Davis

5601 S 122ND E AVE

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

MANHATTAN ROAD AND BRIDGE

Test Package : CONST ( Additional Tests: TBN ) Certificate 12367 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) TULSA, OK