

# **OIL ANALYSIS REPORT**

Sample Rating Trend



# Area [21313] 20-23 Component Diesel Engine

Fluid

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

# Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

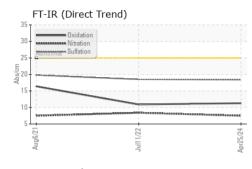
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

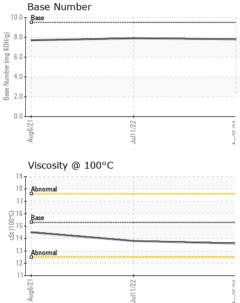
SAMPLE INFORM		method	limit/base	current	history1	history2	
			mmbase				
Sample Number		Client Info		WC0923425	WC0620019	WC0601508	
Sample Date		Client Info		25 Apr 2024	11 Jul 2022	06 Aug 2021	
Machine Age	hrs	Client Info		8249	7975	0	
Oil Age	hrs	Client Info		274	0	0	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	N	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	52	14	23	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	0	<1	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	0	
Lead	ppm	ASTM D5185m	>40	0	<1	<1	
Copper	ppm	ASTM D5185m	>330	12	<1	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Antimony	ppm	ASTM D5185m				0	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	85	30	21	182	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		7	4	15	
Manganese	ppm	ASTM D5185m		1	<1	<1	
Magnesium	ppm	ASTM D5185m	350	36	15	91	
Calcium	ppm	ASTM D5185m	1800	2471	2393	2156	
Phosphorus	ppm	ASTM D5185m	1000	1021	918	992	
Zinc	ppm	ASTM D5185m	1100	1193	1103	1133	
Sulfur	ppm	ASTM D5185m	3500	4485	3651	3068	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	10	4	3	
Sodium	ppm	ASTM D5185m		6	3	2	
Potassium	ppm	ASTM D5185m	>20	4	10	8	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	7.5	8.4	7.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	18.5	19.8	
FLUID DEGRADA		method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.3	10.9	16.4	
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	7.8	7.9	7.7	
7:07:15) Bev: 1	÷ 5		Submitted By: JAMES STEELMON				

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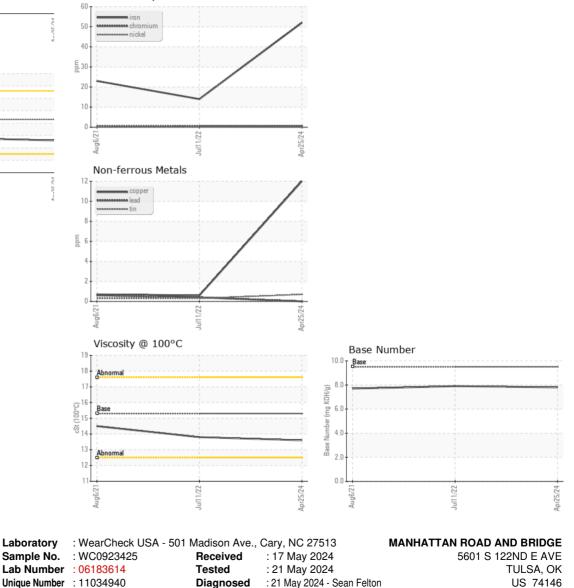
# **OIL ANALYSIS REPORT**





VISUAL		methoa	iimit/base	current	nistory i	nistory∠
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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.3	13.6	13.8	14.5
GRAPHS						

Ferrous Alloys





 Unique Number
 : 11034940
 Diagnosed
 : 21 May 2024 - Sean Felton

 Certificate L2367
 Test Package
 : CONST (Additional Tests: TBN)
 Co

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

 \* - 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)

Contact: BEN CALDWELL kevin.marson@wearcheck.com T: (918)728-5749 106:2012) F:

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Submitted By: JAMES STEELMON

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