

OIL ANALYSIS REPORT

Sample Rating Trend





Area [21962] 50-56 Component Diesel Engine

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

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

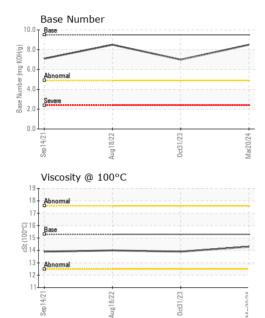
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0923323	WC0836103	WC0619991
Sample Date		Client Info		20 Mar 2024	31 Oct 2023	18 Aug 2022
Machine Age	hrs	Client Info		12600	12325	8930
Oil Age	hrs	Client Info		275	675	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٨	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	11	9	7
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	2	1	1
Lead	ppm	ASTM D5185m	>26	<1	0	<1
Copper	ppm	ASTM D5185m	>26	2	4	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	94	2	5
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	0	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	350	699	18	10
Calcium	ppm	ASTM D5185m	1800	1371	2265	2153
Phosphorus	ppm	ASTM D5185m	1000	940	938	813
Zinc	ppm	ASTM D5185m	1100	1188	1206	1014
Sulfur	ppm	ASTM D5185m	3500	3893	3811	3314
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	6	4	3
Sodium	ppm	ASTM D5185m	>31	<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	4	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.8	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	17.7	17.8
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.0	9.2	9.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	8.5	7.0	8.5

Submitted By: JAMES STEELMON



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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			
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG			
Free Water	scalar	*Visual		NEG	NEG	NEG			
FLUID PROPERT	TIES	method	limit/base	current	history1	history2			
Visc @ 100°C	cSt	ASTM D445	15.3	14.3	13.9	14.0			
GRAPHS									
Ferrous Alloys									
iron									
10 - nickel									
8-									
He 6-									
4									
2 -									
Z									
	anatilitietuna	53	24						
Sep14/21		0ct31/23	Mar20/24						
Non-ferrous Metals									
10 copper									
8 - Reserves lead									
6- mdd									
4									
2									
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Sep14/21 Aug18/22		0ct31/23	Mar20/24						
Ser		00	Mar						

Base Number

Aug18/22+

10.0 Base

8 (mg KOH/g)

6 (Abno

4 (Base

2 (

0.0

Sep14/21-

Number

Mar20/24 -

: 01 Apr 2024

: 02 Apr 2024



Unique Number : 10954215 Diagnosed : 02 Apr 2024 - Wes Davis Test Package : CONST (Additional Tests: TBN) Contact: BEN CALDWELL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. kevin.marson@wearcheck.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (918)728-5749 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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

Received

Tested

0ct31/23

Viscosity @ 100°C

Aug18/22 -

19

18 17

() 100°C) 15

ぢ 14

13 Abnon

12 11-

Laboratory

Sample No.

Lab Number : 06134750

Sep14/21.

: WC0923323

Submitted By: JAMES STEELMON

0ct31/23 -

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MANHATTAN ROAD AND BRIDGE

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Mar20/24

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