

OIL ANALYSIS REPORT

Sample Rating Trend

Juni2021 April 02-1

NORMAL



90-46
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.

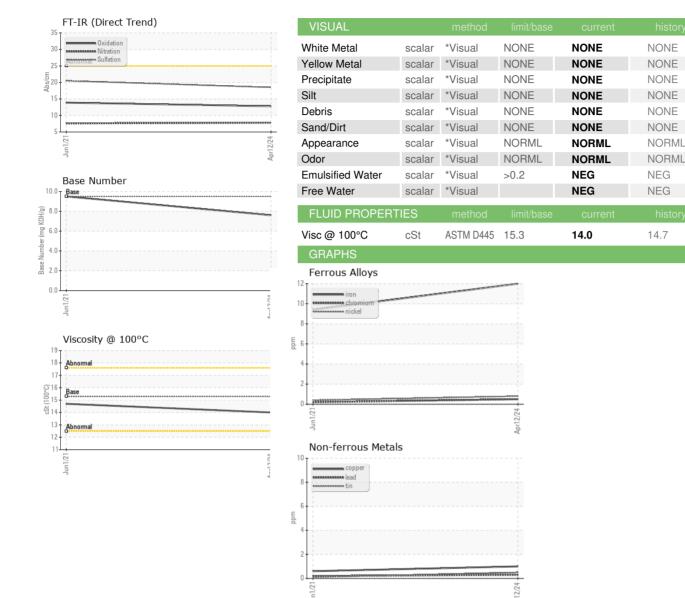
Fluid Condition

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

0 (GAL)			Jun2021	AprŽ024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0766484	WC0548886	
Sample Date		Client Info		12 Apr 2024	01 Jun 2021	
Machine Age	hrs	Client Info		2581	1711	
Oil Age	hrs	Client Info		2581	250	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method	70.2	NEG	NEG	
-			Page 24 //2 2 2 2 2			
WEAR METALS		method	limit/base		history1	history2
Iron	ppm	ASTM D5185m	>100	12	9	
Chromium	ppm	ASTM D5185m		<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>20	3	<1	
Lead	ppm	ASTM D5185m	>40	<1	<1	
Copper	ppm	ASTM D5185m		1	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	80	109	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		35	2	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	350	474	612	
Calcium	ppm	ASTM D5185m	1800	1600	1198	
Phosphorus	ppm	ASTM D5185m	1000	1067	899	
Zinc	ppm	ASTM D5185m	1100	1192	1024	
Sulfur	ppm	ASTM D5185m	3500	3866	2807	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	
Sodium	ppm	ASTM D5185m		2	3	
Potassium	ppm	ASTM D5185m	>20	3	3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	20.5	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.8	13.9	
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	7.6	9.5	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06155091 Unique Number : 10990514

<u>2</u>15 ₹ 14

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0766484

Test Package : CONST (Additional Tests: TBN)

Viscosity @ 100°C

Received : 19 Apr 2024 **Tested** Diagnosed

: 22 Apr 2024 : 22 Apr 2024 - Wes Davis

(mg K0H/g)

0.0

Base Number

5601 S 122ND E AVE TULSA, OK US 74146 Contact: BEN CALDWELL

MANHATTAN ROAD AND BRIDGE

kevin.marson@wearcheck.com T: (918)728-5749

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)