

OIL ANALYSIS REPORT

Area [20512] 30-97

Diesel Engine

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

Sample Rating Trend **VISCOSITY**

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Dealer charged oil last time or two)

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

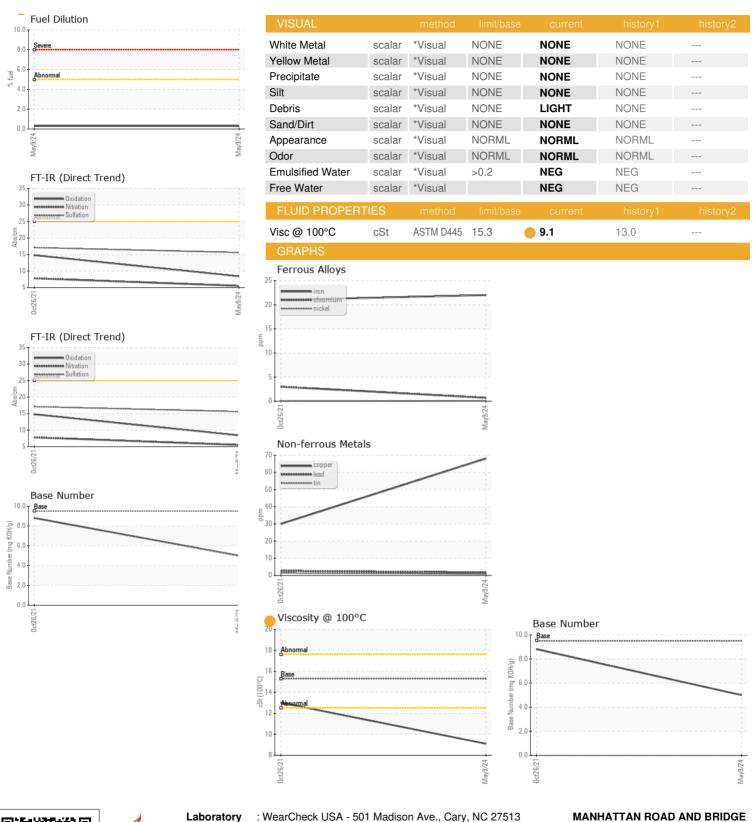
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

) (GAL)		<u>, </u>	Oct2021	May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0923364	WC0601588	
Sample Date		Client Info		09 May 2024	26 Oct 2021	
Machine Age	hrs	Client Info		1202	236	
Oil Age	hrs	Client Info		250	236	
Oil Changed	1113	Client Info		Changed	Not Changd	
Sample Status		Ollerit IIIIO		ATTENTION	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method	>0. 2	NEG	NEG	
		VVO IVIELIIOU		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		22	21	
Chromium	ppm	ASTM D5185m	>20	<1	3	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m		<1	4	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	4	
Lead	ppm	ASTM D5185m	>40	2	3	
Copper	ppm	ASTM D5185m	>330	68	30	
Tin	ppm	ASTM D5185m	>15	<1	1	
Antimony	ppm	ASTM D5185m			<1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	35	50	
Barium	ppm	ASTM D5185m		0	7	
Molybdenum	ppm	ASTM D5185m		19	99	
Manganese	ppm	ASTM D5185m		<1	5	
Magnesium	ppm	ASTM D5185m	350	204	173	
Calcium	ppm	ASTM D5185m	1800	1134	2173	
Phosphorus	ppm	ASTM D5185m	1000	592	815	
Zinc	ppm	ASTM D5185m	1100	749	1035	
Sulfur	ppm	ASTM D5185m	3500	3395	2452	
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	16	
Sodium	ppm	ASTM D5185m		2	11	
Potassium	ppm	ASTM D5185m	>20	3	14	
Fuel	%	ASTM D3524	>5	0.3	<1.0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	5.5	7.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.6	17.1	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.4	14.8	
D 11 (D10)						
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	5.0	8.8	



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Certificate 12367

Laboratory

Sample No. Lab Number : 06207300 Unique Number : 11074761

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0923364

Received : 11 Jun 2024 **Tested** Diagnosed

: 18 Jun 2024 : 18 Jun 2024 - Jonathan Hester

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

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

 st - 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

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

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