

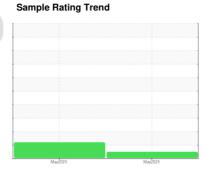
OIL ANALYSIS REPORT



TULSA [23724] 30-101

Component **Diesel Engine**

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





Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Resample)

All component wear rates are normal.

Contamination

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

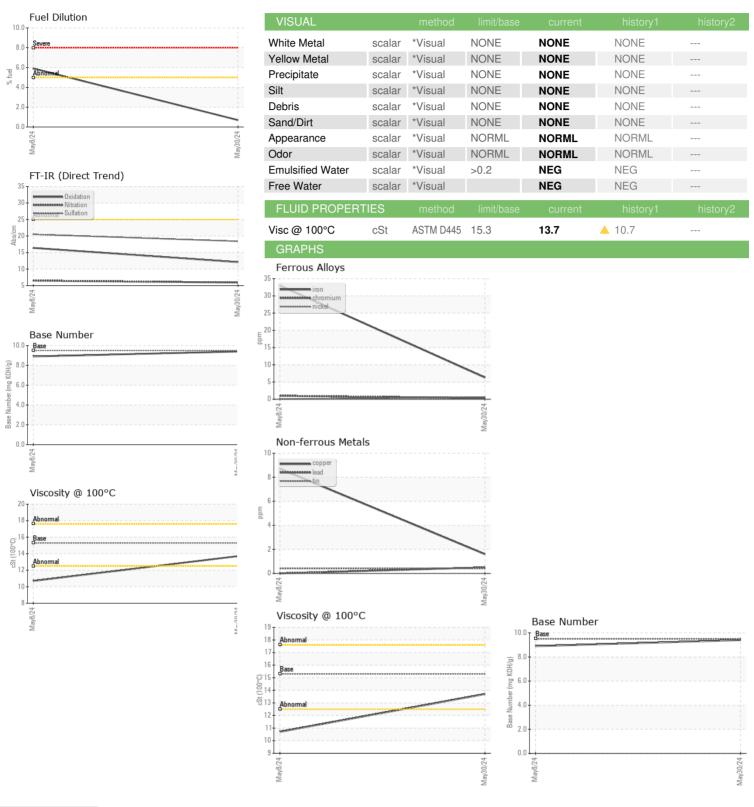
Fluid Condition

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

DOL ECT 15W40 (-	GAL)		May2024	May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0940640	WC0923380	
Sample Date		Client Info		30 May 2024	08 May 2024	
Machine Age	hrs	Client Info		304	291	
Oil Age	hrs	Client Info		13	291	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	6	33	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m	>2	1	0	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>25	3	2	
_ead	ppm	ASTM D5185m	>40	<1	0	
Copper	ppm	ASTM D5185m	>330	2	9	
Γin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	96	52	
Barium	ppm	ASTM D5185m		2	3	
Molybdenum	ppm	ASTM D5185m		5	36	
Manganese	ppm	ASTM D5185m		2	11	
Magnesium	ppm	ASTM D5185m	350	638	454	
Calcium	ppm	ASTM D5185m	1800	1250	1697	
Phosphorus	ppm	ASTM D5185m	1000	878	938	
Zinc	ppm	ASTM D5185m	1100	1101	1112	
Sulfur	ppm	ASTM D5185m	3500	3246	3309	
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	15	
Sodium	ppm	ASTM D5185m		1	4	
Potassium	ppm	ASTM D5185m	>20	4	0	
Fuel	%	ASTM D3524	>5	0.7	▲ 5.9	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	
Vitration	Abs/cm	*ASTM D7624	>20	5.9	6.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	20.5	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.1	16.4	
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	9.4	8.9	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WC0940640 Lab Number : 06219458 Unique Number : 11097655

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

Received : 25 Jun 2024 **Tested** Diagnosed

: 27 Jun 2024 : 27 Jun 2024 - Jonathan Hester

Test Package : CONST (Additional Tests: 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)

MANHATTAN ROAD AND BRIDGE

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