

OIL ANALYSIS REPORT

Sample Rating Trend



40-150 Component Diesel Engine Fluid

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

DIAGNOSIS Recommendation

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

Area [23033] Machine Id

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	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0923379	WC0793208	WC0754835
Sample Date		Client Info		09 May 2024	21 Mar 2024	21 Feb 2023
Machine Age	hrs	Client Info		3856	3776	3140
Oil Age	hrs	Client Info		80	3776	223
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method	20.21	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	22	8 5	23
Chromium	ppm	ASTM D5185m	>11	<1	1	0
Nickel	ppm	ASTM D5185m	>5	2	▲ 8	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>31	3	5	2
Lead	ppm	ASTM D5185m	>26	<1	<1	0
Copper	ppm	ASTM D5185m	>26	13	5	<1
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	91	37	75
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		11	54	16
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	350	628	342	562
Calcium	ppm	ASTM D5185m	1800	1360	2169	1488
Phosphorus	ppm	ASTM D5185m	1000	1112	1115	982
Zinc	ppm	ASTM D5185m	1100	1181	1321	1160
Sulfur	ppm	ASTM D5185m	3500	4043	4622	3832
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	5	6	4
Sodium	ppm	ASTM D5185m	>31	4	5	4
Potassium	ppm	ASTM D5185m	>20	4	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	0.7	0.2
Nitration	Abs/cm	*ASTM D7624	>20	11.2	10.7	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.4	22.3	18.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	16.2	12.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	4.8	6.1	9.0



0.0

19

18

13 Abnorma 12

11 Sep23/21-

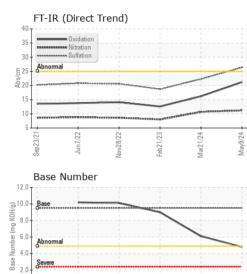
Bas

Sep23/21

Viscosity @ 100°C

Jun7/22

OIL ANALYSIS REPORT



lov28/22

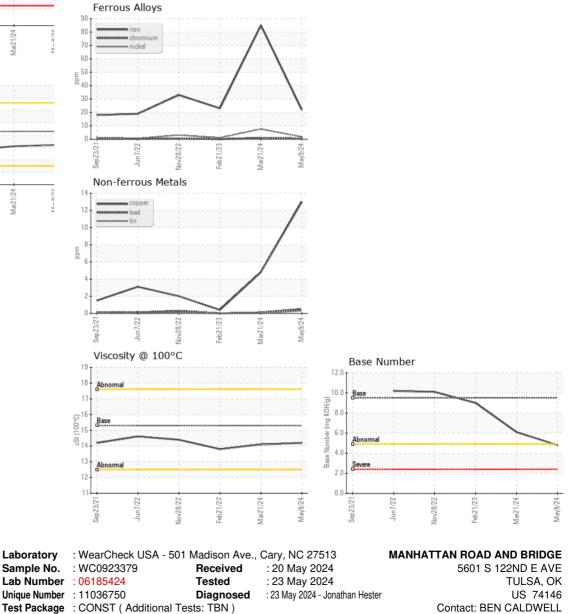
eb21/23

eb21/23

Mar21/24

Mar21/24

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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.3	14.2	14.1	13.8





Certificate 12367 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)

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