

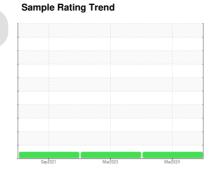
OIL ANALYSIS REPORT

Area [21954] 54-26

Component

Diesel Engine

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





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

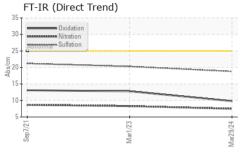
Fluid Condition

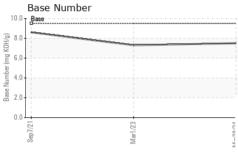
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

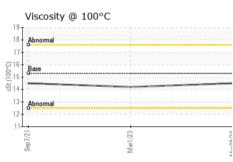
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0836210	WC0738873	WC0548829
Sample Date		Client Info		29 Mar 2024	01 Mar 2023	07 Sep 2021
Machine Age	hrs	Client Info		5012	4779	4583
Oil Age	hrs	Client Info		233	0	310
Oil Changed	1110	Client Info		Changed	Changed	Changed
Sample Status		Olioni illio		NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel			>5	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
		WC Method	<i>></i> 0.2	NEG	NEG	NEG
Glycol						
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	57	16	19
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	2	0
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	13	84	78
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	3	6
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	350	105	768	698
Calcium	ppm	ASTM D5185m	1800	2462	1411	1425
Phosphorus	ppm	ASTM D5185m	1000	1155	1112	1042
Zinc	ppm	ASTM D5185m	1100	1346	1313	1158
Sulfur	ppm	ASTM D5185m	3500	4798	4846	3285
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	5	3
Sodium	ppm	ASTM D5185m		, <1	3	1
Potassium	ppm	ASTM D5185m	>20	<1	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.4	0.8	1.2
Nitration	Abs/cm	*ASTM D7624	>20	7.5	8.3	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	20.3	21.2
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.8	12.8	13.1
	mg KOH/g	ASTM D2896	9.5	7.5	7.3	8.6
15:22) Pay: 1	mg Normy	7.0 TW D2000	0.0	0.1		EC CTEEL MON



OIL ANALYSIS REPORT



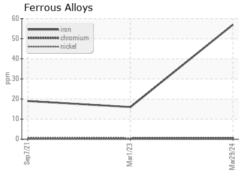


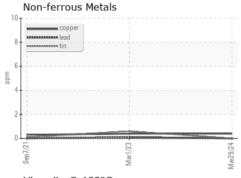


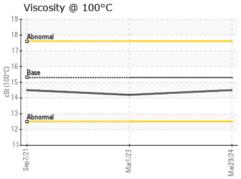
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

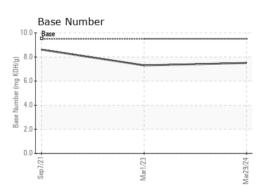
FLUID PROPER	HES	method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.3	14.5	14.2	14.5

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06149313 Unique Number : 10979391

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0836210

Received **Tested**

: 15 Apr 2024 : 16 Apr 2024 : 17 Apr 2024 - Don Baldridge

Diagnosed Test Package : CONST (Additional Tests: TBN) 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)

MANHATTAN ROAD AND BRIDGE

5601 S 122ND E AVE TULSA, OK

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