

OIL ANALYSIS REPORT

Area [21957] 10-476L

Component Diesel Engine

CONOCO PHILLIPS GUARDOL ECT 10W30 (--- GAL)

Sample Rating Trend



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

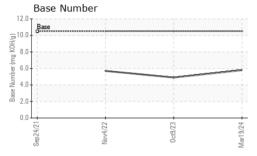
Fluid Condition

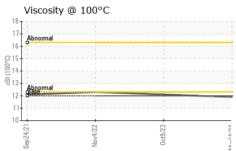
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

0 (GAL)		Sep202	1 Nov2022	0ct2023 N	ar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	mls mls	Client Info Client Info Client Info Client Info Client Info		WC0836168 19 Mar 2024 301679 23508 Changed NORMAL	WC0818741 09 Oct 2023 278171 57602 Changed NORMAL	WC0754793 04 Nov 2022 220569 25000 Changed NORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method	>5 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron Chromium Nickel Titanium Silver Aluminum	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>100 >20 >4 >3 >20	19 1 <1 106 0	21 <1 <1 103 0	15 <1 <1 <1 89 0 6
Lead Copper Tin Antimony Vanadium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>40 >330 >15	<1 5 1 1	<1 7 <1 <1	<1 6 1 <1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 36	history1 15	history2 20
Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 2 <1	3 2 <1	0 <1 <1
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1100 1220	427 1893 929 1243 3813	426 1884 1105 1295 4273	399 1774 954 1196 4104
CONTAMINANTS	ppm	method	limit/base		history1	history2
Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	9 1 9	7 <1 10	6 3 11
INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >3 >20 >30	0.4 10.4 24.7	0.4 10.9 28.0	0.4 10.6 25.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 10.5	21.0 5.8	23.9 4.9	21.1 5.7



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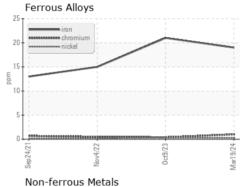


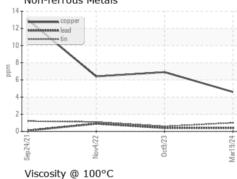


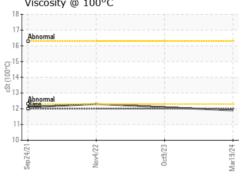
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

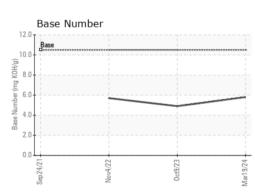
FLUID PROPER	TIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	12.0	11.9	12.1	12.3

GRAPHS













Laboratory Sample No.

Lab Number : 06134744 Unique Number : 10954209 Test Package : CONST (Additional Tests: TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0836168

Received **Tested** Diagnosed

: 01 Apr 2024 : 02 Apr 2024

: 02 Apr 2024 - Wes Davis

MANHATTAN ROAD AND BRIDGE 5601 S 122ND E AVE TULSA, OK

US 74146 Contact: BEN CALDWELL

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

* - 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)

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