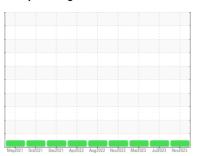


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



[20128] Machine Id 80-214

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

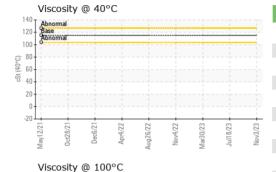
Fluid Condition

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

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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0836246	WC0802414	WC0793311	
Sample Date		Client Info		03 Nov 2023	18 Jul 2023	30 Mar 2023	
Machine Age	hrs	Client Info		7658	7428	7127	
Oil Age	hrs	Client Info		230	301	264	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	18	18	29	
Chromium	ppm	ASTM D5185m	>20	<1	<1	1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m		1	0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	3	3	
Lead	ppm	ASTM D5185m	>40	0	<1	0	
Copper	ppm	ASTM D5185m	>330	<1	3	1	
Tin	ppm	ASTM D5185m	>15	0	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	85	53	50	59	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		3	31	10	
Manganese	ppm	ASTM D5185m		<1	0	<1	
Magnesium	ppm	ASTM D5185m	350	699	599	808	
Calcium	ppm	ASTM D5185m	1800	1260	1754	1341	
Phosphorus	ppm	ASTM D5185m	1000	1052	1112	1130	
Zinc	ppm	ASTM D5185m	1100	1208	1351	1305	
Sulfur	ppm	ASTM D5185m	3500	3578	4708	4731	
CONTAMINANTS	S	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	9	7	10	
Sodium	ppm	ASTM D5185m		0	2	3	
Potassium	ppm	ASTM D5185m	>20	2	4	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	8.7	9.5	9.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.6	18.3	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	14.0	13.9	
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	7.7	7.3	7.3	
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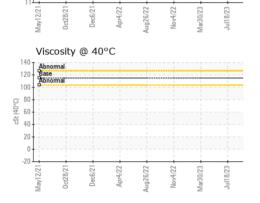
OIL ANALYSIS REPORT



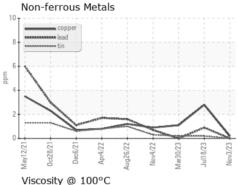
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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

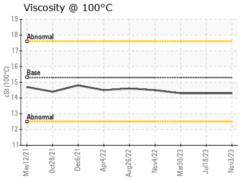
18 - Abno	ormal		 	 	
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13 - Ahn	remal.				
12	Allilai		 	 	

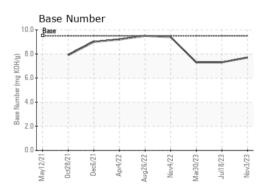




Ferrous Alloys 30 E 25 15











Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: WC0836246 : 06010095

: 10749239

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Nov 2023 Diagnosed

: 20 Nov 2023 Diagnostician : Don Baldridge

Test Package : CONST (Additional Tests: KV40, 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.

MANHATTAN ROAD AND BRIDGE

5601 S 122ND E AVE TULSA, OK

US 74146 Contact: BEN CALDWELL kevin.marson@wearcheck.com

T: (918)728-5749

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: