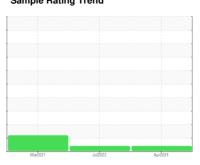


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 30-46 Component
Diesel Engine

CONOCO PHILLIPS GUARDOL ECT 15W40

Recommendation

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

(GAL)		Ma	2021	Jul2022 Apr20	124	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0750277	WC0619343	WC0548935
Sample Date		Client Info		06 Apr 2024	22 Jul 2022	24 Mar 2021
Machine Age	hrs	Client Info		4803	4507	4203
Oil Age	hrs	Client Info		0	4203	250
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINATION	1	method	limit/base	current	history1	history2
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	19	11	7
Chromium	ppm	ASTM D5185m	>20	1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	1	3	1
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Antimony	ppm	ASTM D5185m				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	35	90	75
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		27	2	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	350	759	693	722
Calcium	ppm	ASTM D5185m	1800	1261	1428	1319
Phosphorus	ppm	ASTM D5185m	1000	1008	1029	1027
Zinc	ppm	ASTM D5185m	1100	1132	1189	1106
Sulfur	ppm	ASTM D5185m	3500	3684	4310	3034
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	4
Sodium	ppm	ASTM D5185m		3	2	4
Potassium	ppm	ASTM D5185m	>20	0	1	15
Fuel	%	ASTM D3524	>5	<1.0	<1.0	△ 2.5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.0	10.2	9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	21.8	21.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	14.8	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	8.0	8.7	9.4
:10:45\ Dov: 1	0 0				Submitted By: L/	NOT LIADMON



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WC0750277 Lab Number : 06148025

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

Unique Number : 10978103 Diagnosed : 16 Apr 2024 - Don Baldridge Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

: 12 Apr 2024

: 16 Apr 2024

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. 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)