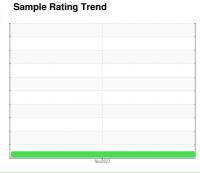


OIL ANALYSIS REPORT



NORMAL



Machine Id 415 Component

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

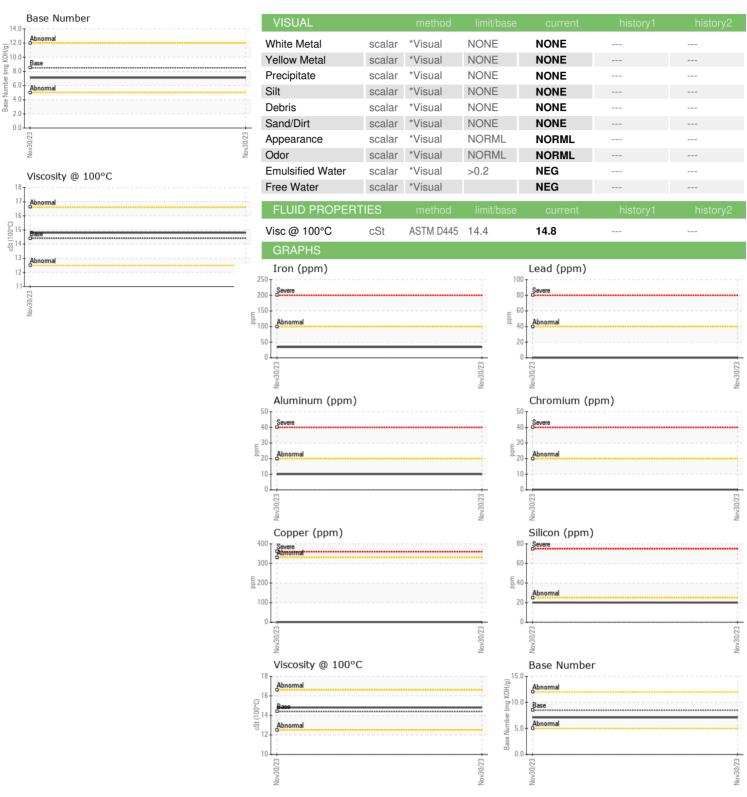
Fluid Condition

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

				Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0584582		
Sample Date		Client Info		30 Nov 2023		
Machine Age	mls	Client Info		178480		
Oil Age	mls	Client Info		12000		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	34		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	10		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	<1		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	313		
Barium	ppm	ASTM D5185m	10	2		
Molybdenum	ppm	ASTM D5185m	100	92		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	450	428		
Calcium	ppm	ASTM D5185m	3000	1438		
Phosphorus	ppm	ASTM D5185m	1150	991		
Zinc	ppm	ASTM D5185m	1350	1283		
Sulfur	ppm	ASTM D5185m	4250	3607		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	20		
Sodium	ppm	ASTM D5185m	>216	<1		
Potassium	ppm	ASTM D5185m	>20	6		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	8.0		
Nitration	Abs/cm	*ASTM D7624	>20	10.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.9		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.7		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.1		



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: 06026081 : 10775872 Test Package : MOB1+

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0584582 Received Diagnosed

: 06 Dec 2023 : 07 Dec 2023 : Wes Davis Diagnostician

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)

MIDDLESBORO COCA-COLA BOTTLING - MCCB

1324 E CUMBERLAND AVE MIDDLESBORO, KY

US 40965 Contact: TIM GOINS

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