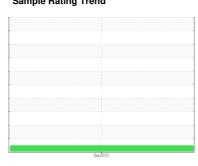


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 409 Component

**Diesel Engine** 

ZINC-FREE ENGINE OIL SAE 40 (--- GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) ZINC-FREE 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.

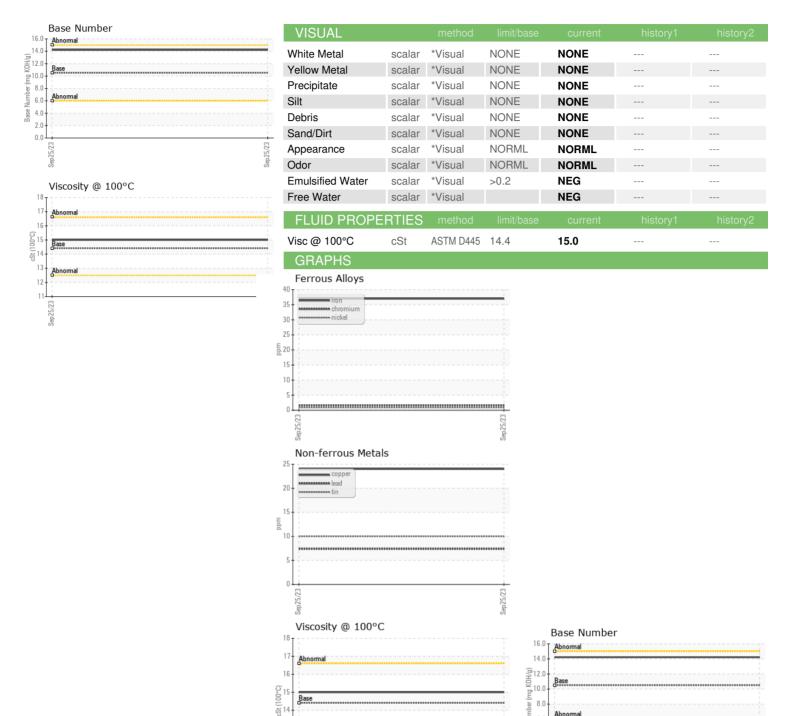
#### Fluid Condition

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

				Sep2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA05995906		
Sample Date		Client Info		25 Sep 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/bass	ourrent.	historya	hiotom/0
	ION		limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	37		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	6		
Lead	ppm	ASTM D5185m	>40	7		
Copper	ppm	ASTM D5185m	>330	24		
Tin	ppm	ASTM D5185m	>15	10		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	37		
Barium	ppm	ASTM D5185m	5	<1		
Molybdenum	ppm	ASTM D5185m	37	42		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	12	11		
Calcium	ppm	ASTM D5185m	3250	3285		
Phosphorus	ppm	ASTM D5185m	50	7		
Zinc	ppm	ASTM D5185m	5	0		
Sulfur	ppm	ASTM D5185m	5750	3632		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10		
Sodium	ppm	ASTM D5185m		42		
Potassium	ppm	ASTM D5185m	>20	3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8		
Nitration	Abs/cm	*ASTM D7624	>20	9.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.9		
FLUID DEGRA	DAT <u>ION</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.7		
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	14.22		
= 300 . 10.71001 (214)	99					



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: 05995906 : 10724266 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA05995906 Received : 01 Nov 2023 Diagnosed : 02 Nov 2023

: Wes Davis Diagnostician

8.0 6.0

2.0 0.0

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)

**U.S. SUGAR CORP** 

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