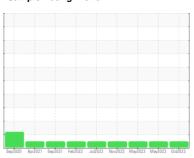


# **OIL ANALYSIS REPORT**

#### **Sample Rating Trend**







Machine Id 2106 Component

**Diesel Engine** 

**DIESEL ENGINE OIL SAE 5W30 (--- GAL)** 

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

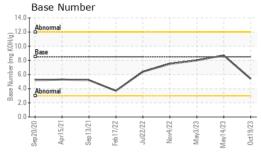
#### **Fluid Condition**

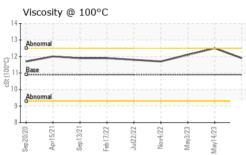
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		зергого ир	rŽ021 SepŽ021 FebŽ022	Jul2022 Nov2022 May2023 May20	25 062025	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0836260	WC0814863	WC0786106
Sample Date		Client Info		19 Oct 2023	14 May 2023	03 May 2023
Machine Age	mls	Client Info		401193	351660	350100
Oil Age	mls	Client Info		50000	50000	100000
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	l	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	19	3	19
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	6	0	5
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	5	<1	3
Tin	ppm	ASTM D5185m	>15	<1	0	<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	250	14	73	45
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	58	51	61
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	972	797	450
Calcium	ppm	ASTM D5185m	3000	791	1091	1849
Phosphorus	ppm	ASTM D5185m	1150	960	804	1038
Zinc	ppm	ASTM D5185m	1350	1186	1024	1344
Sulfur	ppm	ASTM D5185m	4250	2730	3093	3889
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	7	10
Sodium	ppm	ASTM D5185m		4	3	1
Potassium	ppm	ASTM D5185m	>20	7	4	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	8.0	0.1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.9	6.0	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.6	19.8	21.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.1	15.9	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.4	8.7	8.0



## **OIL ANALYSIS REPORT**

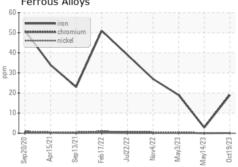




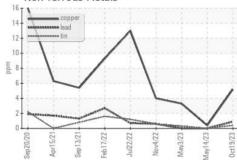
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERI	HES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	10.9	11.9	12.5	12.1

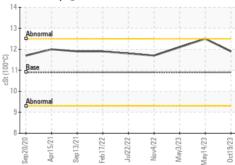
## Ferrous Alloys



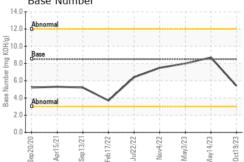
### Non-ferrous Metals















Laboratory Sample No. Lab Number Unique Number : 10724553 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0836260 : 05996193

Received Diagnosed

: 01 Nov 2023 : 03 Nov 2023 Diagnostician : Wes Davis

MABE TRUCKING PO BOX 1081

EDEN, NC US 27289

F: (336)635-1791

Contact: MAINTENANCE

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

maintenancemanager@mabetrucking.com T:

\* - 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)