

## **OIL ANALYSIS REPOR**

SAMPLE INFORM

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

CONTAMINATIC

WEAR METALS

K

r

ppm

ppm

ppm

ppm

ASTM D5185m >330

ASTM D5185m >15

ASTM D5185m

ASTM D5185m

Oil Age

Fuel

Glycol

Iron

Lead

Tin

Copper

Vanadium

Cadmium

Chromium Nickel Titanium Silver Aluminum

Sample Rating Trend





### Component **Diesel Engine** DIESEL ENGINE OIL SAE 10W30 (--- QTS)

#### 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 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.

RT		g		N	ORMAL
		dozo Mwłozi Judozi	octozi Matozz Jantoz Mato	21 042923	
ATION	method	limit/base	current	history1	history2
	Client Info Client Info		PCA0101259 12 Oct 2023	PCA0073114 23 May 2023	PCA0073164 17 Jan 2023
mls	Client Info		342014	299863	272491
mls	Client Info		30000	30000	38000
	Client Info		Changed	N/A	N/A
			NORMAL	NORMAL	NORMAL
ON	method	limit/base	current	history1	history2
	WC Method	>5	<1.0	<1.0	<1.0
	WC Method		NEG	NEG	NEG
	method	limit/base	current	history1	history2
ppm	ASTM D5185m	>100	17	13	29
ppm	ASTM D5185m	>20	2	1	1
ppm	ASTM D5185m	>4	<1	0	<1
ppm	ASTM D5185m		0	0	0
ppm	ASTM D5185m	>3	<1	0	<1
ppm	ASTM D5185m	>20	1	<1	2
ppm	ASTM D5185m	>40	2	0	2

 $\cap$ 

<1

0

0

<1

0

0

	1010				-	-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	0	12	0
Barium	ppm	ASTM D5185m	10	4	0	0
Molybdenum	ppm	ASTM D5185m	100	63	60	62
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	930	976	942
Calcium	ppm	ASTM D5185m	3000	1072	1201	1089
Phosphorus	ppm	ASTM D5185m	1150	919	1105	982
Zinc	ppm	ASTM D5185m	1350	1234	1375	1301
Sulfur	ppm	ASTM D5185m	4250	2941	3880	3363
			11 11 11		100 A	

1

<1

0

<1

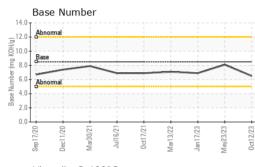
CONTAIVIINA		methoa	limit/base		nistory i	nistory∠
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m		0	1	<1
Potassium	ppm	ASTM D5185m	>20	2	<1	<1

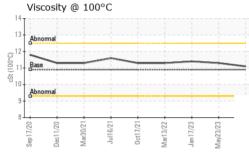
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.3	8.3	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	19.9	20.8
FLUID DEGRAD	<b>ATION</b>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	16.2	17.6
Base Number (BN)	ma KOH/a	ASTM D2896	8.5	6.5	8.1	6.9



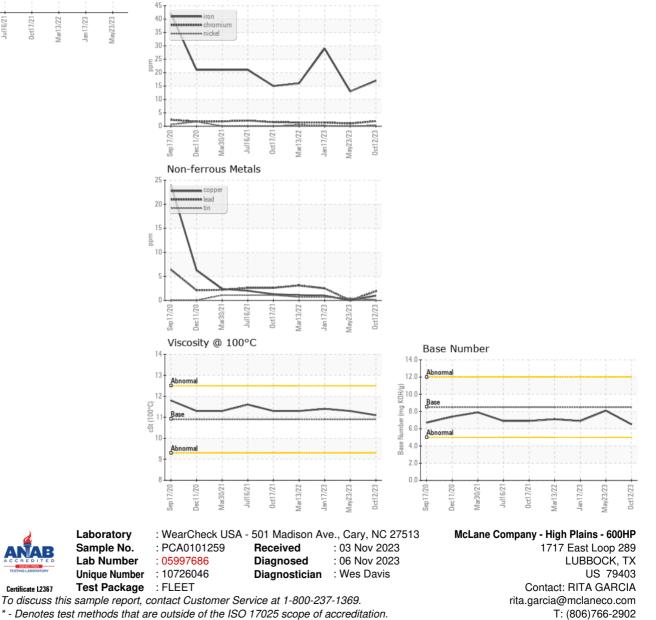
# **OIL ANALYSIS REPORT**

Ferrous Alloys





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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.9	11.1	11.3	11.4
GRAPHS						



\* - 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)

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