

# Machine Id CB3321069 2081523 Component Diesel Engine {not provided} (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. 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**

Metal levels are typical for a new component breaking in.

## CONTAMINATION

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

## **FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Teet		Mathad	Limit/Aba	Cummont	Llistond	Lister /
	UOIVI		LIIIII/ADII	Doogoood	HISTOLY I	HISTOLAS
Sample Number		Client Info		10 Eat 0004		
Sample Date	la una	Client Info		19 Feb 2024		
Machine Age	nrs			731		
	nrs			0		
Filter Age	nrs	Client Info				
Oil Changed				Not Change		
Filter Changed		Client Into		Not Change		
Sample Status				SEVERE		
Iron	maa	ASTM D5185m	>100	4		
Chromium	mag	ASTM D5185m	>20	<1		
Nickel	mag	ASTM D5185m	>4	<1		
Titanium	mag	ASTM D5185m		<1		
Silver	mag	ASTM D5185m	>3	0		
Aluminum	mag	ASTM D5185m	>20	2		
Lead	mag	ASTM D5185m	>40	- 1		
Copper	ppm	ASTM D5185m	>330	<1		
Tin	mag	ASTM D5185m	>15	3		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>25	4		
Potassium	ppm	ASTM D5185m	>20	3		
Fuel	%	ASTM D3524	>5	<b>8</b> .7		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	6.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.2		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Sodium	0000			.1		
Boron	ppm	ASTM DE105~		<1		
Borium	ppm	AGTM DE105~		0		
Malybdanum	ppm	ASTM D5105m		2		
Mangapaga	ppm	ASTM D5185m		.1		
Manyanese	ppin	ACTM D5105m		<1		
Calcium	ppm	ASTM D5105III		4J 2019		
Phoenhorue	nnm	ASTM D5185m		700		
Zinc	ppill	ASTM D5185m		007		
Sulfur	nnm	ASTM D5185m		3500		
Ovidation	Ahe/ 1mm	*ASTM D7/1/	>25	11.0		
Base Number (BN)	ma KOH/a	ASTM D2896	~	7.2		
Visc @ 100°C	cSt	ASTM D445		11.1		

#### WEAR NORMAL CONTAMINATION **SEVERE** FLUID CONDITION **ABNORMAL**



