

Machine Id C220E310859 Component Diesel Engine {not provided} (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		JR0220237	JR0188115	
	Sample Date		Client Info		15 Jun 2024	26 Oct 2023	
	Machine Age	hrs	Client Info		5587	5080	
	Oil Age	hrs	Client Info		5587	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	MARGINAL	
WEAR	Iron	ppm	ASTM D5185m		36	5	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m	>4	<1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	8	3	
	Lead	ppm	ASTM D5185m	>40	0	0	
	Copper	ppm	ASTM D5185m	>330	2	<1	
	Tin	ppm	ASTM D5185m	>15	1	<1	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
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CONTAMINATION	Silicon	ppm	ASTM D5185m		11	7	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		5	0	
	Fuel			>5	<1.0	2.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.3	0.4	
	Nitration	Abs/cm		>20	11.8	8.1	
	Sulfation	Abs/.1mm	*ASTM D7415		26.0	21.4	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	
	Boron		ASTM D5185m		118	226	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	
	Molybdenum	ppm	ASTM D5185m		235	238	
	Manganese	ppm	ASTM D5185m		1	<1	
	Magnesium	ppm	ASTM D5185m		868	821	
	Calcium	ppm	ASTM D5185m		1546	1432	
	Phosphorus	ppm	ASTM D5185m		1075	931	
	Zinc		ASTM D5185m		1239	1151	
	Sulfur	ppm ppm	ASTM D5185m		3736	3166	
	Oxidation		*ASTM D3103111	>25	23.3	15.8	
		MU5/.111111	AGTIVI D7414	>20	20.0	10.0	

8.3

12.4

7.8

14.8

ASTM D445

Base Number (BN) mg KOH/g ASTM D2896

Visc @ 100°C cSt



