

NOT GIVEN JR0215190 (S/N NO INFO ON SIF/BOTTLE) Component Diesel Engine

{not provided} (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		JR0215190		
	Sample Date		Client Info		09 May 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	Iron		ASTM D5185m	×100	58		
WEAN	Chromium	ppm	ASTM D5185m		1		
All component wear rates are normal.	Nickel	ppm			0		
		ppm	ASTM D5185m	>4	-		
	Titanium	ppm	ASTM D5185m	0	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		 11 C 		
	Lead	ppm	ASTM D5185m		6		
	Copper	ppm	ASTM D5185m		98		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nom	ASTM D5185m	> 25	3 8		
CONTAMINATION	Potassium	ppm	ASTM D5185m		1		
Fuel content negligible. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress.	Fuel	ppm %	ASTM D318511		2.1		
	Water	70	WC Method		NEG		
	Glycol		WC Method	>0.2	NEG		
	Soot %	%	*ASTM D7844	. 2	0.9		
	Nitration	Abs/cm	*ASTM D7644	>3 >20	10.3		
	Sulfation	Abs/.1mm	*ASTM D7415		28.9		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		9		
	Boron	ppm	ASTM D5185m		152		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		4		
	Molybdenum	ppm	ASTM D5185m		252		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		698		
	Calcium	ppm	ASTM D5185m		1773		
	Phosphorus	ppm	ASTM D5185m		904		
	Zinc	ppm	ASTM D5185m		1077		
		66			0570		

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m

Base Number (BN) mg KOH/g ASTM D2896

Abs/.1mm *ASTM D7414 >25

ASTM D445

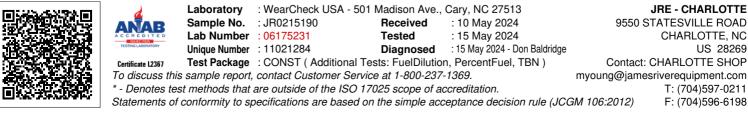
3572

25.8

7.0

12.3





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