

Machine Id 0813.0214 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (--- GAL)

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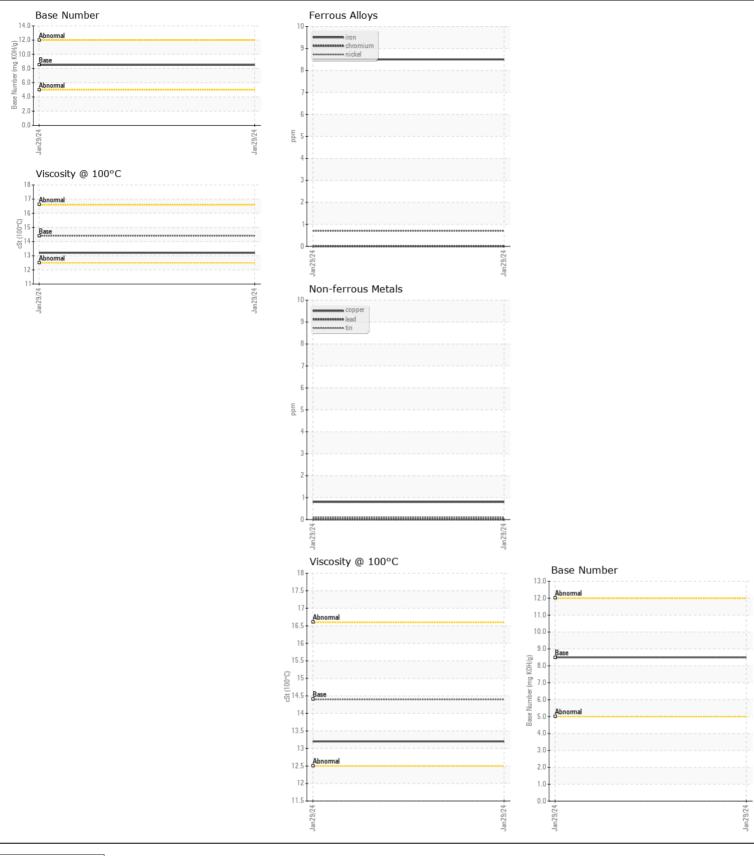
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RECOMMENDATION	Test	UOM	Method Client Info	Limit/Abn	Current JR0202849	History1	History2
Resample at the next service interval to monitor.	Sample Number Sample Date		Client Info		29 Jan 2024		
	Machine Age	hrs	Client Info		1729		
	Oil Age	hrs	Client Info		1729		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1115	Client Info		o Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
	Sample Status						
WEAR	Iron	ppm	ASTM D5185m	>100	8		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0		
	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>20	10		
	Lead	ppm	ASTM D5185m	>40	0		
	Copper	ppm	ASTM D5185m	>330	<1		
	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	ppm	ASTM D5185m	>25	5		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	26		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	5.8		
	Sulfation	Abs/.1mm	*ASTM D7415		19.1		
	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	Codium			. 016	.1		
	Sodium	ppm	ASTM D5185m		<1 126		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		126		
	Barium	ppm	ASTM D5185m ASTM D5185m		0		
	Molybdenum	ppm		100	60		
	Manganese	ppm	ASTM D5185m	450	<1		
	Magnesium	ppm	ASTM D5185m		370		
	Calcium	ppm	ASTM D5185m		1696		
	Phosphorus	ppm	ASTM D5185m		980		
	Zinc	ppm	ASTM D5185m		1206		
	Sulfur	ppm	ASTM D5185m		3574		
	Oxidation	Abs/.1mm	*ASTM D7414		15.4		
	Base Number (BN)	mg KOH/g	ASTM D2896	0.5	8.5		

Visc @ 100°C cSt

ASTM D445 14.4

13.2



JRE - GARNER Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0202849 Recieved : 30 Jan 2024 4161 AUBURN CHURCH RD Lab Number : 06074325 Diagnosed : 31 Jan 2024 GARNER, NC : 10856416 Unique Number Diagnostician : Sean Felton US 27529 Test Package : CONST (Additional Tests: TBN) Contact: RALEIGH SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)614-2260 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)779-5432

Submitted By: RENN MASHBURN

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