

Machine Id J3R05038 Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

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		JR0215315	JR0198750	
	Sample Date		Client Info		07 Jul 2024	19 Jan 2024	
	Machine Age	hrs	Client Info		9194	9072	
brand, type, and viscosity of the on on your next sample.	Oil Age	hrs	Client Info		122	9072	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	<100	7	19	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		, <1	1	
	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m	~7	0	<1	
	Silver		ASTM D5185m	-3	0	0	
	Aluminum	ppm ppm	ASTM D5185m		9	<u> </u>	
	Lead		ASTM D5185m		9 <1	<1	
	Copper	ppm	ASTM D5185m		1	2	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m	>15	0	0	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal			NONE	NONE		
	reliow Metal	scalar	*Visual	NONE		NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	7	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		5	11	
	Fuel		WC Method	>5	<1.0	1.5	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	7.2	8.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	22.1	
	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	
	Codium			. 150	06	_ co	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		26 265	69	
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		265	48	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m	100	235	64	
	Manganese	ppm	ASTM D5185m	450	<1 770	<1	
	Magnesium	ppm	ASTM D5185m		770	586	
	Calcium	ppm	ASTM D5185m		1453	1853	
	Phosphorus	ppm	ASTM D5185m		1001	1023	
	Zinc	ppm	ASTM D5185m	1350	1110	1294	

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m 4250

ASTM D445 14.4

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896 8.5

3532

20.6

9.3

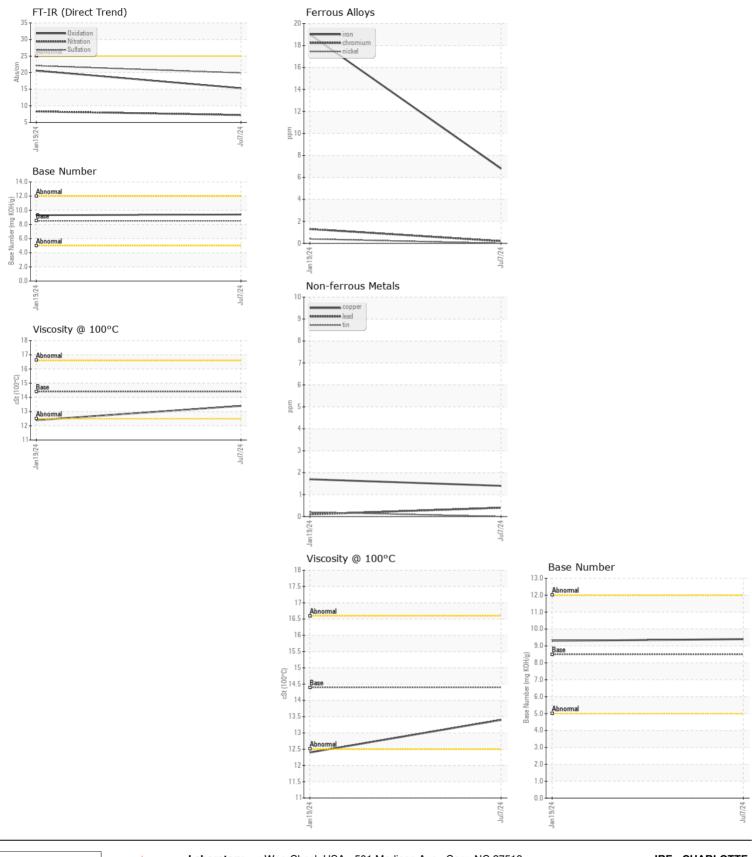
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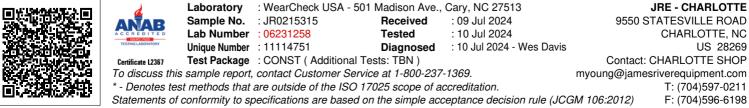
3726

15.3

9.4

13.4





Submitted By: Mike Young - CHARLOTTE SHOP Page 2 of 2