

Machine Id **DODGE NO UNIT WC0484039** Component **Diesel Engine**

SHELL ROTELLA T6 5W40 (--- GAL)

RECOMMENDATION

We advise that you check for faulty combustion and a possible overheat condition. The oil change at the time of sampling has been noted.

WEAR

All component wear rates are normal.

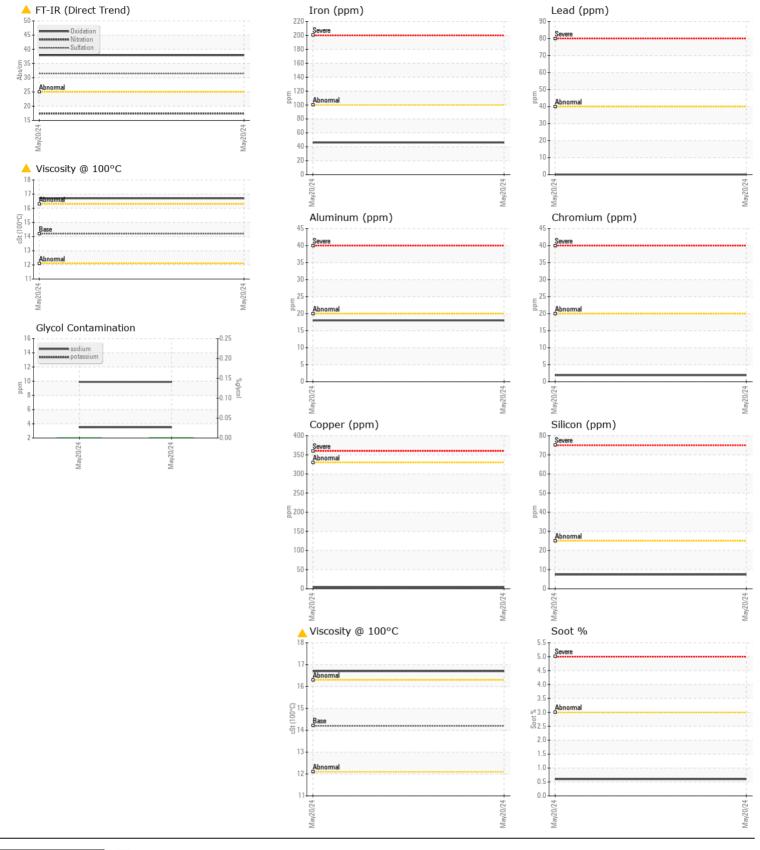
CONTAMINATION

There is an abnormal level of sulfation indicated.

FLUID CONDITION

A small degree of oil oxidation was indicated. Viscosity of sample indicates oil is within SAE 50 range, advise investigate. The oil is no longer serviceable.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0484039		
Sample Date		Client Info		20 May 2024		
Machine Age	kms	Client Info		176440		
Oil Age	kms	Client Info		16000		
Filter Age	kms	Client Info		16000		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
Iron	nom	ASTM D5185(m)	>100	46		
Chromium	ppm ppm	ASTM D5185(m)	>20	2		
Nickel	ppm	ASTM D5185(m)	>20	 <1		
Titanium	ppm	ASTM D5185(m)	24	1		
Silver		ASTM D5185(m)	>3	- <1		
Aluminum	ppm	ASTM D5185(m)	>20	18		
Lead	ppm	()	>20	0		
	ppm	ASTM D5185(m) ASTM D5185(m)	>40	4		
Copper Tin	ppm			4		
Vanadium	ppm	ASTM D5185(m) ASTM D5185(m)	>15	0		
White Metal	ppm scalar	Visual*	NONE	U NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
fellow wetai	Scalal	visuai	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>25	7		
Potassium	ppm	ASTM D5185(m)	>20	10		
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol	%	ASTM D7922*		0.0		
Soot %	%	ASTM D7844*	>3	0.6		
Nitration	Abs/cm	ASTM D7624*	>20	17.4		
Sulfation	Abs/.1mm	ASTM D7415*	>30	A 31.5		
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	nnm	ASTM D5185(m)		4		
Boron	ppm ppm	ASTM D5185(m)		4 84		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		ہ <1		
Magnesium	ppm	ASTM D5185(m)		82		
Calcium	ppm	ASTM D5185(m)		1903		
Phosphorus	ppm	ASTM D5185(m)		790		
Zinc	ppm	ASTM D5185(m)		991		
Sulfur	ppm	ASTM D5185(m)		2514		
Oxidation	Abs/.1mm	ASTM D7414*	>25	▲ 37.9		
Visc @ 100°C	cSt	ASTM D7279(m)	14.2	▲ 16.7		
	001	101101213(III)	17.4			



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 PEDERSON AGGREGATES CALA Sample No. : WC0484039 Received RR #3, 748 DAVIS DRIVE : 22 May 2024 57 Lab Number : 02636856 Tested : 22 May 2024 UXBRIDGE, ON ISO 17025:2017 Accredited Laboratory Unique Number : 5786018 : 22 May 2024 - Kevin Marson CA L9P 1R3 Diagnosed Test Package : MOB 1 (Additional Tests: Glycol, Visual) Contact: Kaj Pedersen To discuss this sample report, contact Customer Service at 1-800-268-2131. palimited@primus.ca T: (905)852-7861 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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