WEAR CONTAMINATION **FLUID CONDITION**

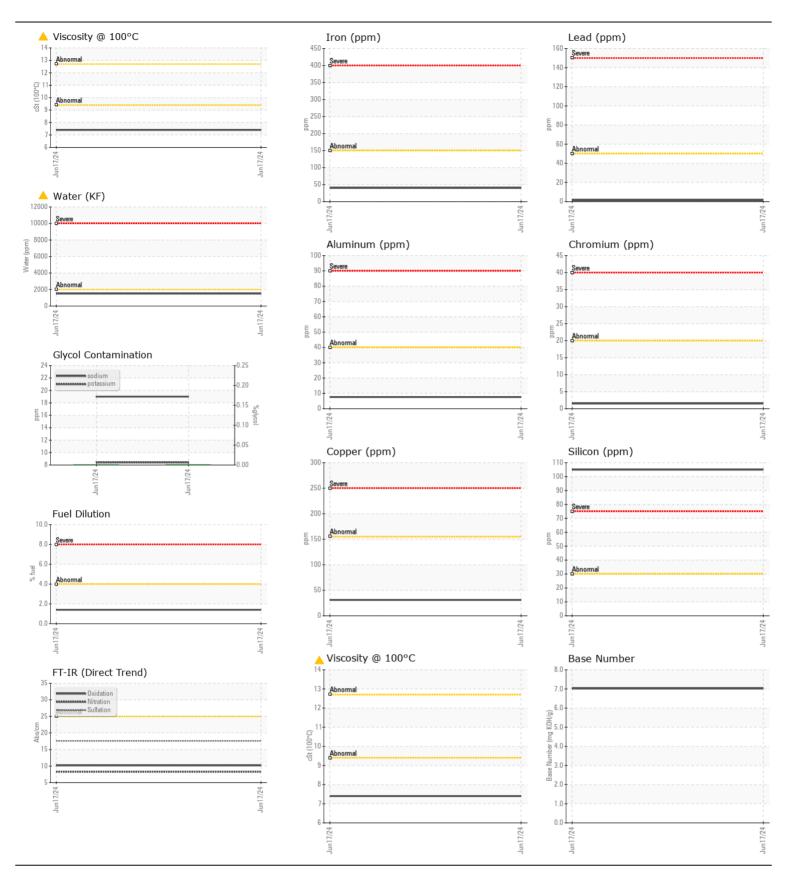
NORMAL MARGINAL ABNORMAL

Machine Id

JEEP JEEP RUBICON

Front Gasoline Engine

{not provided} (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Taking the sample cold limits the accuracy of our diagnosis. We understand that corrective action has already been taken. We recommend an early resample to monitor this condition. Advise you send the oil filter for a more detailed analysis of the wear situation that is occurring in this component. Please specify the brand, type, and	Sample Number		Client Info		WC0956306		
	Sample Date		Client Info		17 Jun 2024		
	Machine Age	kms	Client Info		3000		
	Oil Age	kms	Client Info		0		
	Filter Age	kms	Client Info		0		
viscosity of the oil on your next sample.	Oil Changed		Client Info		N/A		
violetity of the off off year floor campio.	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAD	lvan		ACTM DE10E(m)	. 150	40		
WEAR Light concentration of visible metal present. The wear metal levels do not reflect the reported failure.	Iron	ppm	ASTM D5185(m)		40		
	Chromium	ppm	ASTM D5185(m)		2		
	Nickel	ppm	ASTM D5185(m)	>5	<1		
	Titanium	ppm	ASTM D5185(m)	0	0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum Lead	ppm	ASTM D5185(m)		8		
		ppm	ASTM D5185(m) ASTM D5185(m)		1 31		
	Copper Tin	ppm	ASTM D5185(m)		<1		
	Vanadium	ppm	ASTM D5185(m)	>10	0		
	White Metal	scalar	Visual*	NONE	VLITE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>30	105		
Light fuel dilution occurring. There is a trace of moisture present in the oil. Test for glycol is negative. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185(m)	>20	8		
	Fuel	%	ASTM D7593*	>4.0	1.4		
	Water	%	ASTM D6304*	>0.2	<u> </u>		
	ppm Water	ppm	ASTM D6304*	>2000	1507		
	Glycol	%	ASTM D7922*		0.0		
	Soot %	%	ASTM D7844*		0		
	Nitration	Abs/cm	ASTM D7624*	>20	8.3		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	17.6		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor Emulsified Water	scalar	Visual* Visual*	NORML	NORML		
<u></u>		Scalai	VISUAI	>0.2	.2%		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>400	19		
	Boron	ppm	ASTM D5185(m)		57		
The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185(m)		1		
	Molybdenum	ppm	ASTM D5185(m)		154		
	Manganese	ppm	ASTM D5185(m)		24		
	Magnesium	ppm	ASTM D5185(m)		444		
	Calcium	ppm	ASTM D5185(m)		1263		
	Phosphorus	ppm	ASTM D5185(m)		624		
	Zinc	ppm	ASTM D5185(m)		737		
	Sulfur	ppm	ASTM D5185(m)		1580		
	Oxidation	Abs/.1mm	ASTM D7414*	>25	10.2		
	Base Number (BN)				7.02		
	Visc @ 100°C	cSt	ASTM D7279(m)		7.4		





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number

: WC0956306 : 02642569

Received : 18 Jun 2024 **Tested** : 20 Jun 2024

: 20 Jun 2024 - Kevin Marson

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 WAWANESA MUTUAL INSURANCE COMPANY 4100-100 YONGE ST. TORONTO, ON

Unique Number : 5800108 Diagnosed Test Package : MOB 2 (Additional Tests: BottomAnalysis, FILTERPATCH, FuelDilution, Glycol, KF, PercentF@b)ntact: Sue Collings

scollings@wawanesa.com T: (416)228-7820

To discuss this sample report, contact Customer Service at 1-800-268-2131. 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.

CA M2P 2B5

F: (416)228-7828