

**OIL ANALYSIS REPORT** 

## Machine Id **GMC GMC 2500** Compone **Gasoline Engine** TRC PRO-SPEC III SAE 10W30 (6 QTS)

## RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

The aluminum level is abnormal. All other component wear rates are normal.

# **CONTAMINATION**

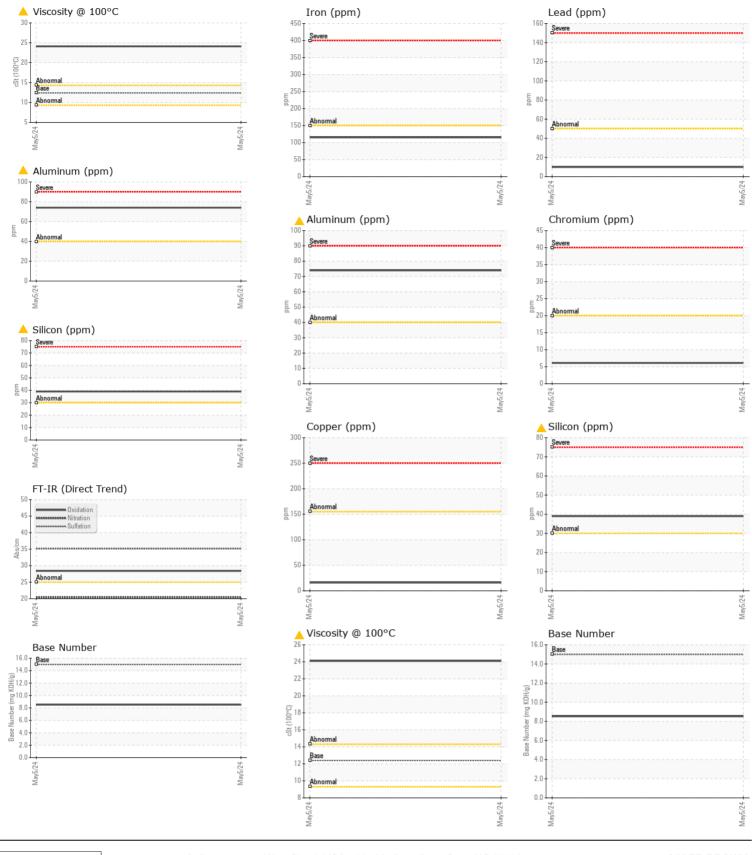
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

## **FLUID CONDITION**

The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06219929		
Sample Date		Client Info		05 May 2024		
Machine Age	mls	Client Info		233000		
Oil Age	mls	Client Info		10000		
Filter Age	mls	Client Info		10000		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185m	>150	115		
Chromium	ppm	ASTM D5185m	>20	6		
Nickel	ppm	ASTM D5185m	>5	3		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>40	▲ 74		
Lead	ppm	ASTM D5185m	>50	10		
Copper	ppm	ASTM D5185m	>155	16		
Tin	ppm	ASTM D5185m	>10	11		
Vanadium	ppm	ASTM D5185m	NOUT	<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>30	<b>4</b> 39		
Potassium	ppm	ASTM D5185m	>20	5		
Fuel	ρριιι	WC Method	>4.0	-1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method	20.L	NEG		
Soot %	%	*ASTM D7844		0.1		
Nitration	Abs/cm	*ASTM D7624	>20	20.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	35.1		
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		
Sodium	ppm	ASTM D5185m	>400	8		
Boron	ppm	ASTM D5185m		2		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		8		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		26		
Calcium	ppm	ASTM D5185m	4500	4609		
Phosphorus	ppm	ASTM D5185m		928		
Zinc	ppm	ASTM D5185m	1400	1182		
Sulfur	ppm	ASTM D5185m		5098		
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.4		
	mg KOH/g	ASTM D2896	15	8.52		
Base Number (BN)	ing Kon/g	AGTIVI D2030	15	0.52		





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **CALEB BROWN** Sample No. Received 502 12TH AVE : TR06219929 : 25 Jun 2024 ā Lab Number : 06219929 Tested : 28 Jun 2024 CANYON, TX : 28 Jun 2024 - Jonathan Hester Unique Number : 11098126 US Diagnosed Test Package : MOB 2 Contact: MIKE LEWIS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-827-0711. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: MIKE LEWIS - CALCAN Page 2 of 2