

#### Machine Id CHEVROLET 700 Component Front Gasoline Engine Fluid PENNZOIL 20W50 (--- LTR)

### RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### **WEAR**

Lead ppm levels are abnormal. Bearing wear is indicated.

### **CONTAMINATION**

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

## **FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR02641674		
Sample Date		Client Info		10 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		75		
Filter Age	hrs	Client Info		75		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185(m)	>150	79		
Chromium	ppm	ASTM D5185(m)	>20	7		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>40	17		
Lead	ppm	ASTM D5185(m)	>50	<mark>▲</mark> 85		
Copper	ppm	ASTM D5185(m)	>155	2		
Tin	ppm	ASTM D5185(m)	>10	0		
Vanadium	ppm	ASTM D5185(m)		0		
Silicon	maa	ASTM D5185(m)	>30	<b>3</b> 4		
Potassium	ppm	ASTM D5185(m)	>20	2		
Fuel		WC Method	>4.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
Soot %	%	ASTM D7844*		0		
Nitration	Abs/cm	ASTM D7624*	>20	3.8		
Sulfation	Abs/.1mm	ASTM D7415*	>30	13.4		
Emulsified Water	scalar	Visual*	>0.2	NEG		
Sodium	ppm	ASTM D5185(m)	>400	4		
Boron	ppm	ASTM D5185(m)		79		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		133		
Manganese	ppm	ASTM D5185(m)		2		
Magnesium	ppm	ASTM D5185(m)		20		
Calcium	ppm	ASTM D5185(m)		1704		
Phosphorus	ppm	ASTM D5185(m)		527		
Zinc	ppm	ASTM D5185(m)		635		
Sulfur	ppm	ASTM D5185(m)		1392		
Oxidation	Abs/.1mm	ASTM D7414*	>25	6.5		
Base Number (BN)	mg KOH/g	ASTM D2896*		7.68		
Visc @ 100°C	cSt	ASTM D7279(m)		15.9		

Contact/Location: Michael Gauthier - PETVIL

# WEAR ABNORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL



Sample No. 10 RUBE DUBE : TR02641674 Received : 13 Jun 2024 Lab Number VILLE-MARIE, QC : 02641674 Tested : 14 Jun 2024 ISO 17025:2017 Accredited Unique Number : 5799213 : 14 Jun 2024 - Kevin Marson CA J9V 1N9 Diagnosed Laboratory Test Package : MOB 2 Contact: Michael Gauthier 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: (819)629-6883 F: (819)629-2215 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: PETVIL [WCAMIS] 02641674 (Generated: 06/14/2024 10:55:17) Rev: 1

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