

WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION ABNORMAL

**OIL ANALYSIS REPORT** 

## Machine Id CHEVROLET 4375 Component Diesel Engine Fluid TRC MOLY XL PRO-SPEC IV XP 15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an	Sample Number		Client Info		TR06212597	TR06073159	TR05948270
	Sample Date		Client Info		10 Jun 2024	22 Jan 2024	01 Sep 2023
	Machine Age	mls	Client Info		212953	209651	207277
	Oil Age	mls	Client Info		5000	5000	5000
	Filter Age	mls	Client Info		5000	5000	5000
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	SEVERE	SEVERE
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	9	8	13
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	3	0
	Lead	ppm	ASTM D5185m	>40	<1	2	6
	Copper	ppm	ASTM D5185m	>330	1	0	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	6	8
There is a birth amount of fuel process in the cil	Potassium	ppm	ASTM D5185m	>20	3	2	3
There is a high amount of fuel present in the oil.	Fuel	%	ASTM D3524	>5	<b>12.9</b>	<b>1</b> 3.4	19.4
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.9	0.9	1.6
	Nitration	Abs/cm	*ASTM D7624	>20	11.4	11.3	11.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	20.4	22.1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	2	3
Fuel is present in the oil and is lowering the viscosity. The BN result	Boron	ppm	ASTM D5185m		4	5	32
indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		113	103	55
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		25	82	512
	Calcium	ppm	ASTM D5185m		3647	3141	1554
	Phosphorus	ppm	ASTM D5185m		824	714	614
	Zinc	ppm	ASTM D5185m		893	809	771
	Sulfur	ppm	ASTM D5185m		4375	3251	2762
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	14.1	19.0
	Base Number (BN)	mg KOH/g	ASTM D2896		8.72	11.41	7.48

Visc @ 100°C cSt

ASTM D445

12.0

11.1

**9**.6



: 06212597 Lab Number LINDON, UT Tested : 20 Jun 2024 US 84042 Unique Number : 11085461 Diagnosed : 20 Jun 2024 - Jonathan Hester Test Package : MOB 2 (Additional Tests: PercentFuel, TAN Man) Contact: JOHN AAGARD 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: (801)796-3698 F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: JOHN AAGARD - MITLIN Page 2 of 2