

WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION ABNORMAL

Machine Id CHEVROLET 3500HD T3 (S/N 1GCHK84609F139100) Component Diesel Engine Fluid NAPA CONVENTIONAL 15W40 (10 QTS)

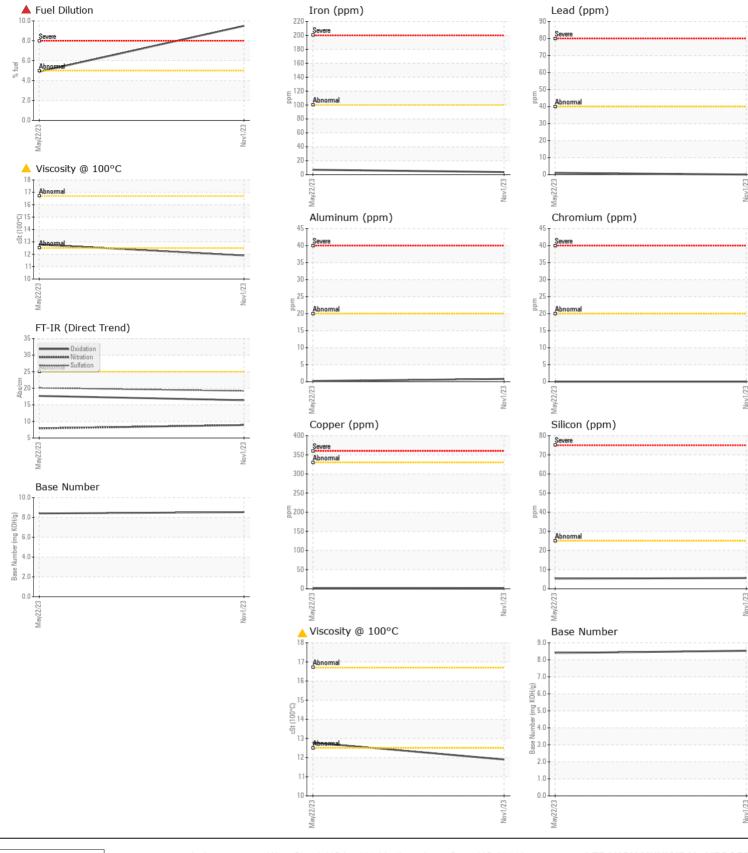
MAPA CONVENTIONAL 15W40 (10 Q15)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		TR06011666	TR05882857	
	Sample Date		Client Info		01 Nov 2023	22 May 2023	
	Machine Age	mls	Client Info		56846	55091	
	Oil Age	mls	Client Info		1755	4139	
	Filter Age	mls	Client Info		1755	4139	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				SEVERE	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	<u>\100</u>	4	7	
	Chromium	ppm	ASTM D5185m		0	0	
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m	24	0	0	
	Silver		ASTM D5185m	.2	0	0	
	Aluminum	ppm	ASTM D5185m			<1	
	Lead	ppm	ASTM D5185m		<1 0	1	
	Copper	ppm	ASTM D5185m		0 <1	<1	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m	>15	0	0	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
		304141	Visual	NONE		NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	5	
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m	>20	0	1	
	Fuel	%	ASTM D3524	>5	4 9.5	4 .9	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.5	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	8.9	7.9	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	20.1	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Sodium	ppm	ASTM D5185m		2	0	
	Boron	ppm	ASTM D5185m		<1	0	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		52	57	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		848	835	
	Calcium	ppm	ASTM D5185m		922	1055	
	Phosphorus	ppm	ASTM D5185m		922	969	
	Zinc		ASTM D5185m		1095	1122	
	Sulfur	ppm ppm	ASTM D5185m		2689	2773	
	Oxidation	Abs/.1mm	*ASTM D5185111	>25	16.4	17.7	
	Base Number (BN)		ASTM D7414 ASTM D2896	>20	8.53	8.4	
					0.00	0.4	

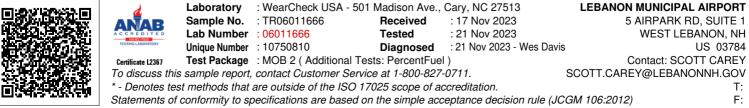
Visc @ 100°C cSt

ASTM D445

12.78

11.9





Contact/Location: SCOTT CAREY - LEBWES Page 2 of 2