

OIL ANALYSIS REPORT

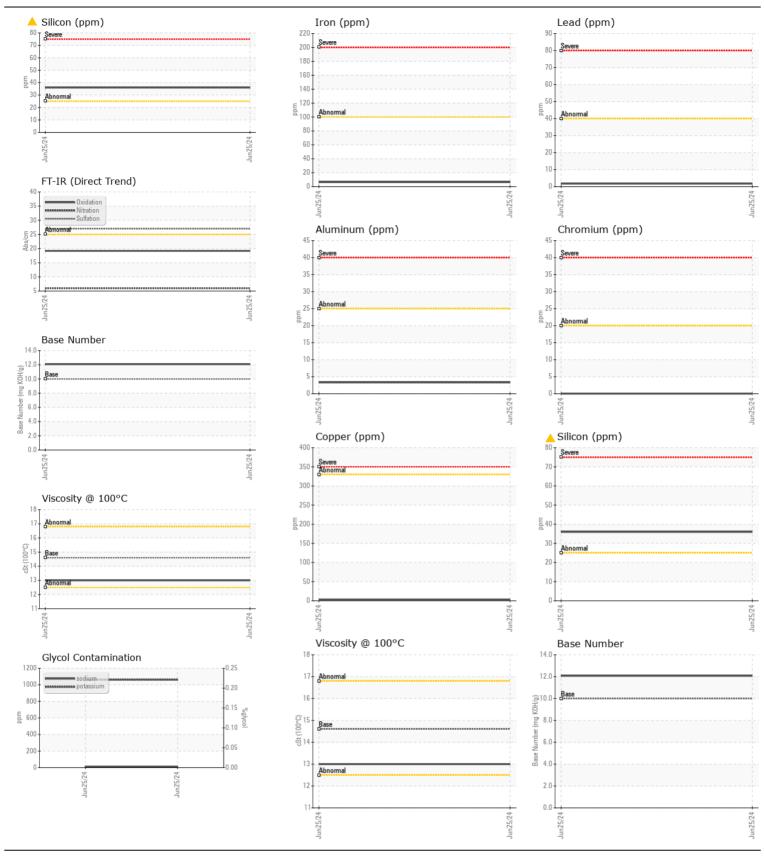
Machine Id FORD FORD F-250 Component Diesel Engine Fluid CHEVRON DELO 400 SDE SAE 15W40 (15 QTS)

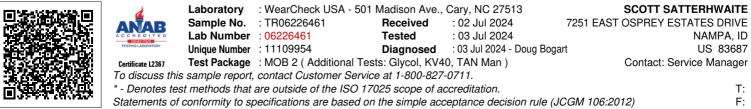
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		TR06226461		
	Sample Date	and a	Client Info		25 Jun 2024		
	Machine Age	mls	Client Info		10000		
	Oil Age	mls	Client Info		5400		
	Filter Age	mls	Client Info		5400 Observed		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	6		
	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	>2	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION Boron and/or potassium levels are high. Suspect oil additives. Elemental level of silicon (Si) above normal indicating ingress of seal material. Test for glycol is negative.	Silicon	ppm	ASTM D5185m	>25	A 36		
	Potassium	ppm	ASTM D5185m	>20	e 1060		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	%	*ASTM D2982		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	6.0		
	Sulfation	Abs/.1mm	*ASTM D7415		27.0		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		14		
	Boron	ppm	ASTM D5185m		1186		
The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		97		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		689		
	Calcium	ppm	ASTM D5185m		1479		
	Phosphorus	ppm	ASTM D5185m	760	714		
	Zinc	ppm	ASTM D5185m		814		
	Sulfur	ppm	ASTM D5185m		3010		
	Oxidation	Abs/.1mm	*ASTM D7414		19.2		
	Base Number (BN)				12.08		
		- Cr	AOTM DA45	14.0	40.0		

Visc @ 100°C cSt

ASTM D445 14.6

13.0





Contact/Location: Service Manager - SCONAM Page 2 of 2