

## Machine Id 814001 Component Diesel Engine Fluid CERTIFIED SPECTRA XTREME 15W40 CK4 (--- LTR)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the	Sample Number		Client Info		GFL0105888		
next service interval to monitor.	Sample Date		Client Info		24 Mar 2024		
	Machine Age	kms	Client Info		111406		
	Oil Age	kms	Client Info		0		
	Filter Age	kms	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	>100	44		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)	>20	0		
	Nickel	ppm	ASTM D5185(m)	>4	0		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	>3	0		
	Aluminum	ppm	ASTM D5185(m)	>20	5		
	Lead	ppm	ASTM D5185(m)	>40	2		
	Copper	ppm	ASTM D5185(m)	>330	80		
	Tin	ppm	ASTM D5185(m)	>15	0		
	Vanadium	ppm	ASTM D5185(m)		0		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	6		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	1		
	Fuel	%	ASTM D7593*	>5	0.8		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*	>3	0.2		
	Nitration	Abs/cm	ASTM D7624*	>20	6.9		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		3		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		4		
	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		263		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)		957		
	Calcium	ppm	ASTM D5185(m)		1153		
	Phosphorus	ppm	ASTM D5185(m)		1169		
	Zinc	ppm	ASTM D5185(m)		1227		
	Sulfur	ppm	ASTM D5185(m)		2948		

Oxidation

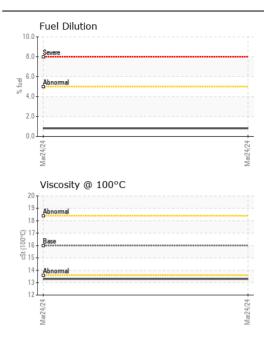
Abs/.1mm ASTM D7414\* >25

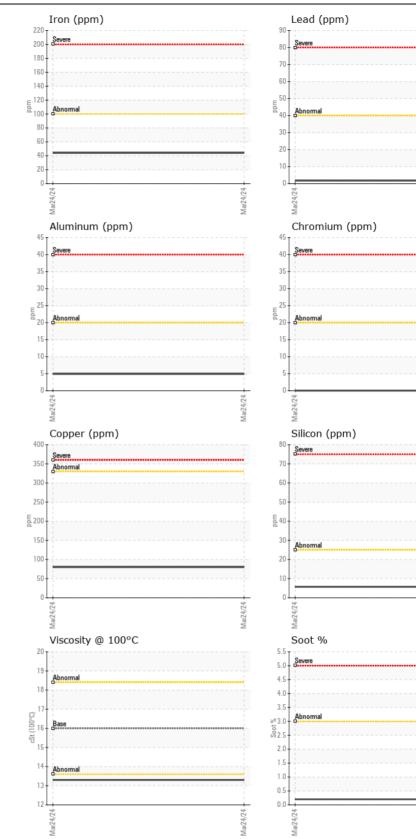
Visc @ 100°C cSt ASTM D7279(m) 16

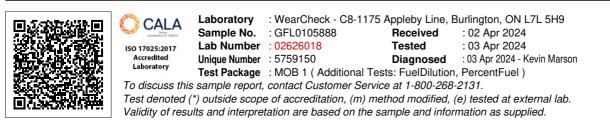
Submitted By: Tamara Denney

14.8

13.3







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