

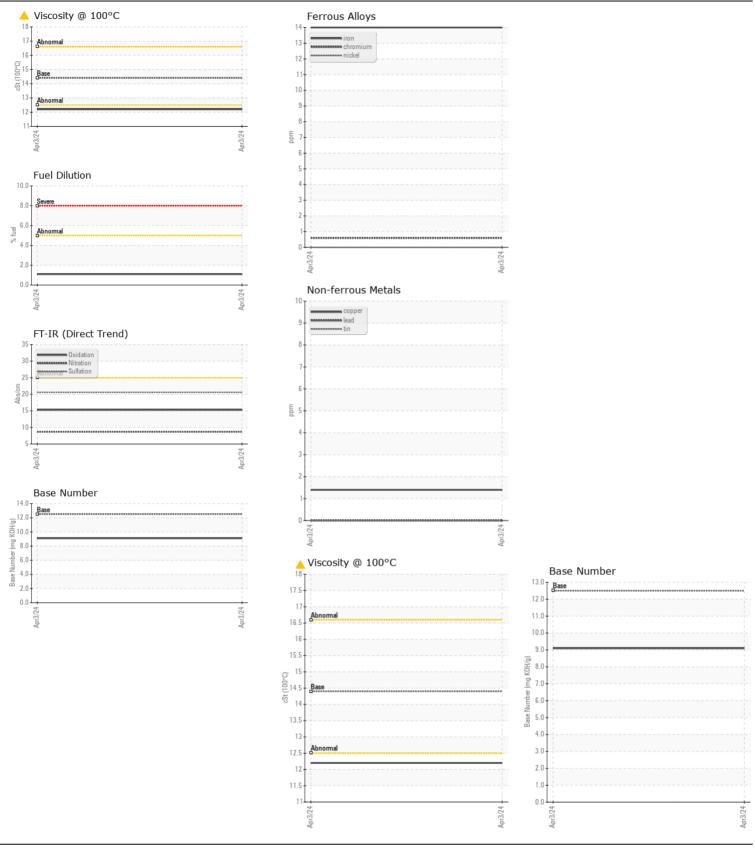
## Machine Id **12249 REEFER** Component **Diesel Engine** Fluid **CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)**

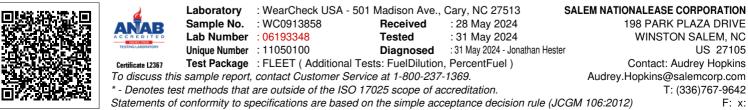
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0913858		
	Sample Date		Client Info		03 Apr 2024		
	Machine Age	hrs	Client Info		1224		
	Oil Age	hrs	Client Info		1224		
	Filter Age	hrs	Client Info		1224		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				MARGINAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	14		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	- <1		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		1		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		4		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0		
	Fuel	%	ASTM D3524		1.1		
	Water		WC Method	>0.2	NEG		
	Glycol	0/	WC Method	0	NEG		
	Soot %	%	*ASTM D7844		1.1		
	Nitration	Abs/cm	*ASTM D7624		8.7		
	Sulfation Silt	Abs/.1mm	*ASTM D7415 *Visual	>30 NONE	20.6 NONE		
	Debris	scalar scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.2	NEG		
FLUID CONDITION The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.							
	Sodium	ppm	ASTM D5185m		0		
	Boron	ppm	ASTM D5185m	151	7		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	250	68		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		1008		
	Calcium	ppm	ASTM D5185m		1290		
	Phosphorus	ppm	ASTM D5185m		1112		
	Zinc	ppm	ASTM D5185m		1398		
	Sulfur	ppm	ASTM D5185m		3916		
	Oxidation	Abs/.1mm	*ASTM D7414		15.3		
	Base Number (BN)	mg KOH/g	ASTM D2896	12.5	9.1		

Visc @ 100°C cSt

ASTM D445 14.4

**12.2** 





Contact/Location: Audrey Hopkins - SALWIN Page 2 of 2