

Machine Id **349634-152269** Component **Diesel Engine** Fluid **CHEVRON DELO 400 XLE 15W40 (--- 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		RY0123431	RY0123221	RY0123177
	Sample Date		Client Info		11 Jan 2024	09 Jan 2023	26 Apr 2022
	Machine Age	mls	Client Info		8000	0	0
	Oil Age	mls	Client Info		0	20000	10000
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	NORMAL	ATTENTION
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		10	71	18
	Chromium	ppm	ASTM D5185m		<1	2	1
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		2	20	10
	Lead	ppm	ASTM D5185m		0	2	2
	Copper	ppm	ASTM D5185m		<1	2	2
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nom	ASTM D5185m	> 25	13	9	5
CONTAMINATION	Potassium	ppm ppm	ASTM D5185m		2	35	12
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3103III		1.4	<1.0	1.3
	Water	/0	WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. ?	0.3	1.5	0.8
	Nitration	Abs/cm	*ASTM D7644	>20	9.3	1.5	13.5
	Sulfation	Abs/.1mm	*ASTM D7024		18.6	31.3	25.3
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	4	5
	Boron	ppm	ASTM D5185m		103	54	35
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		19	92	27
	Manganese	ppm	ASTM D5185m		<1	1	1
	Magnesium	ppm	ASTM D5185m		650	514	656
	Calcium	ppm	ASTM D5185m		1295	1566	1342
	Phosphorus	ppm	ASTM D5185m	760	766	912	664
	Zinc	ppm	ASTM D5185m	830	858	1215	829
	Sulfur	ppm	ASTM D5185m	2770	3289	3331	3121
	Oxidation	Abs/.1mm	*ASTM D7414		13.7	29.2	19.9
	Base Number (BN)	mg KOH/g	ASTM D2896	10.7	7.6	6.6	7.5
	Vier C 10000	- 01	AOTA DATE	44.0		40.0	

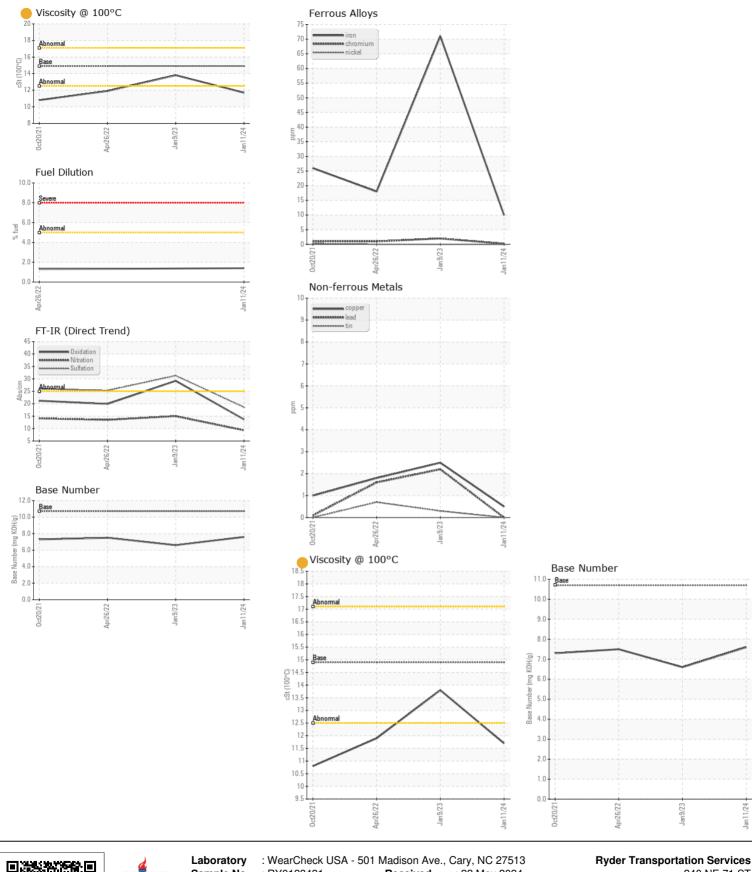
Visc @ 100°C cSt

13.8

11.9

11.7

ASTM D445 14.9



Sample No. : RY0123431 Received 240 NE 71 ST : 22 May 2024 : 28 May 2024 Lab Number : 06187309 Tested MIAMI, FL Diagnosed Unique Number : 11044061 : 28 May 2024 - Jonathan Hester US 33138 Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) Contact: ANTHONY INGRAM Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. anthonyingram@creamoland.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: ANTHONY INGRAM - RYDER1223 Page 2 of 2