

Machine Id 9571380 Component Diesel Engine Fluid CHEVRON DELO 400 MULTIGRADE 15W40 (44 QTS)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		RPL0019648	RPL0015240	RPL0007876
	Sample Date		Client Info		20 May 2024	19 Dec 2023	06 Jul 2023
	Machine Age		Client Info		241048	199958	187678
	Oil Age		Client Info		41090	25000	169284
	Filter Age		Client Info		0	25000	169284
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>165	39	12	22
	Chromium	ppm	ASTM D5185m	>5	1	<1	2
	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		<1	0	<1
	Aluminum	ppm	ASTM D5185m		6	4	4
	Lead	ppm	ASTM D5185m		8	2	4
	Copper	ppm	ASTM D5185m		<1	<1	1
	Tin	ppm	ASTM D5185m	>5	1	<1	2
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	<u>\</u> 25	9	6	9
CONTAMINATION	Potassium	ppm ppm	ASTM D5185m		6	9	6
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>75	0.5	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624		14.0	11.3	12.0
	Sulfation	Abs/.1mm	*ASTM D7415		28.9	25.0	26.4
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	nom	ASTM D5185m		2	1	2
	Boron	ppm	ASTM D5185m	151	83	133	109
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm ppm	ASTM D5185m		<1	0	45
	Molybdenum	ppm	ASTM D5185m		109	88	112
	Manganese	ppm	ASTM D5185m	200	1	<1	2
	Magnesium	ppm	ASTM D5185m	0	588	531	604
	Calcium	ppm	ASTM D5185m		1349	992	1399
	Phosphorus	ppm	ASTM D5185m		582	431	573
	Zinc	ppm	ASTM D5185m		707	543	759
	Sulfur	ppm	ASTM D5185m		2428	1665	2536
	Oxidation	Abs/.1mm	*ASTM D7414		31.5	23.6	25.5
	Base Number (BN)		ASTM D2896		5.2	7.2	6.0
		- 01		44.4	40.0	10.0	10.0

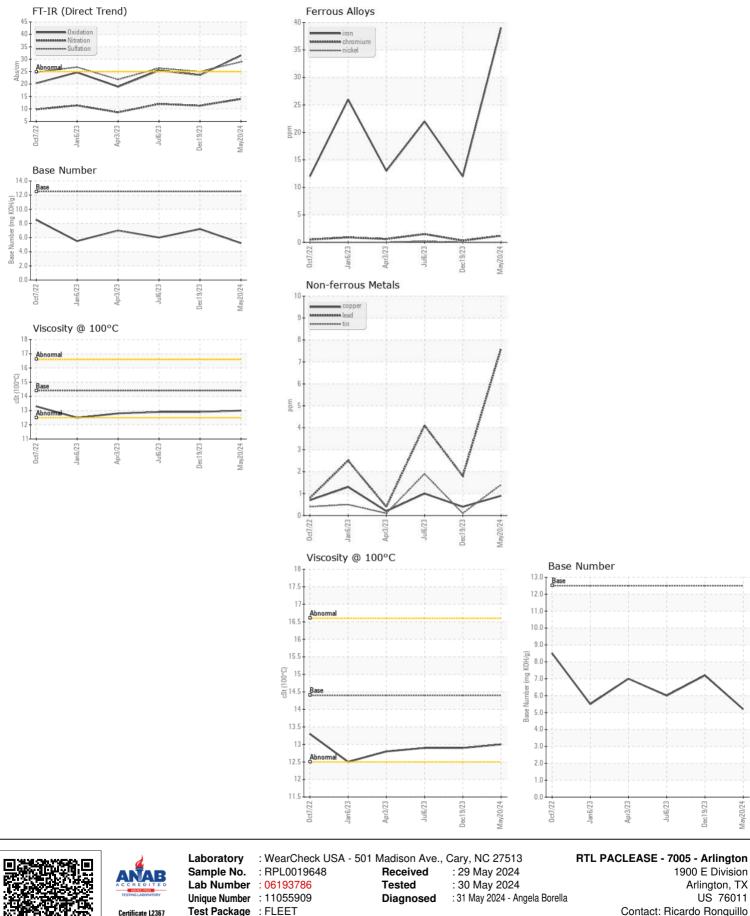
Visc @ 100°C cSt

ASTM D445 14.4

12.9

12.9

13.0



- To discuss this sample report, contact Customer Service at 1-800-237-1369.
- * Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: REGGIE WILLIAMS Page 2 of 2

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