

Machine Id **349605/152249** Component **Diesel Engine** Filuid **CHEVRON SUPREME MOTOR OIL 10W40 (--- 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		RY0123435	RY0123226	RY0123160
	Sample Date		Client Info		21 Mar 2024	09 Feb 2023	15 Aug 2022
	Machine Age	mls	Client Info		6000	0	0
	Oil Age	mls	Client Info		0	1000	2000
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				ATTENTION	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	21	7	14
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	<1	0	1
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>20	4	5	12
	Lead	ppm	ASTM D5185m	>40	<1	<1	1
	Copper	ppm	ASTM D5185m	>330	2	<1	1
	Tin	ppm	ASTM D5185m	>15	<1	0	<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	ppm	ASTM D5185m	>25	6	5	6
	Potassium	ppm	ASTM D5185m		2	3	5
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>5	0.9	<1.0	<1.0
	Water	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	WC Method		NEG	NEG	NEG
	Glycol		WC Method	/ 0.12	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.8	0.4	1
	Nitration	Abs/cm	*ASTM D7624	>20	12.1	7.7	11.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	20.8	23.4
	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	nnm	ASTM D5185m		2	2	6
	Boron	ppm ppm	ASTM D5185m		39	330	151
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		17	90	69
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		668	556	597
	Calcium	ppm	ASTM D5185m		1247	1584	1370
	Phosphorus	ppm	ASTM D5185m	990	693	988	664
	Zinc	ppm	ASTM D5185m		810	1261	817
	Sulfur	ppm	ASTM D5185m		3168	3801	2886
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	15.1	17.0
	Base Number (BN)				6.1	9.0	10.4

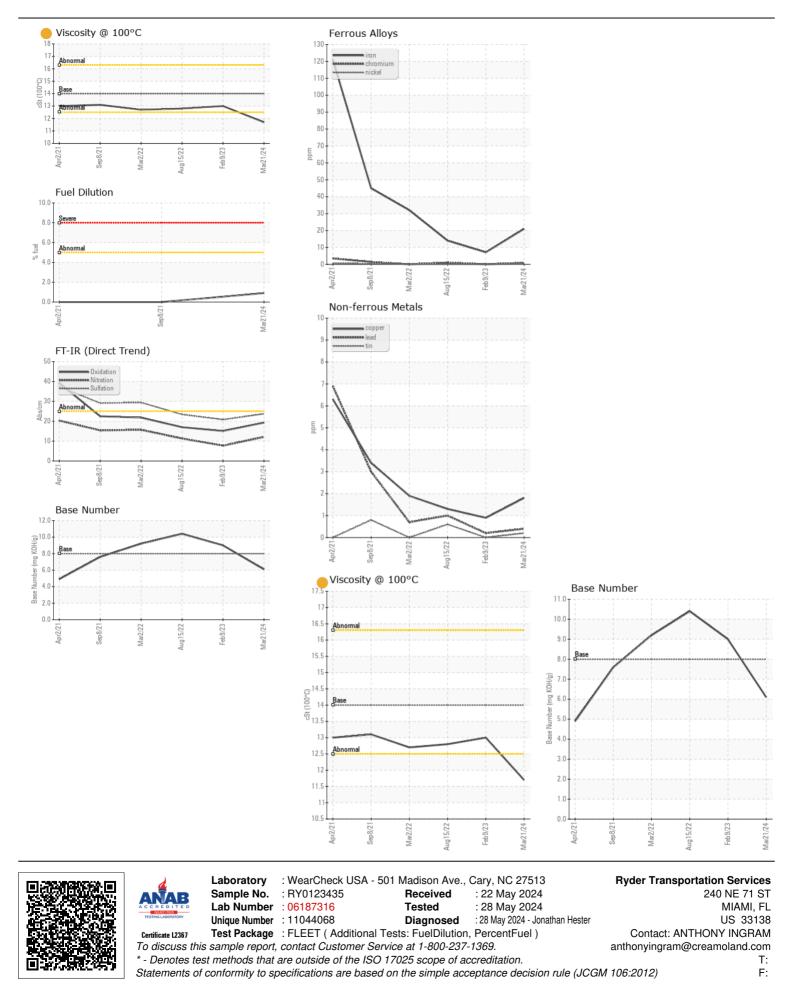
Visc @ 100°C cSt

11.7

ASTM D445 14.0

13.0

12.8



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