

Machine Id **1225** Component **Diesel Engine** Fluid **CHEVRON 15W40 (--- QTS)**

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

					1			
	Test	UOM	Method	Limit/Abn	Cı	urrent	History1	History2
	Sample Number		Client Info		W	C0671768	WC0671811	WC0671763
	Sample Date		Client Info		04	Jun 2024	03 Mar 2024	24 Jul 2023
	Machine Age	mls	Client Info		15	50717	141246	116745
	Oil Age	mls	Client Info		0		0	0
	Filter Age	mls	Client Info		0		0	0
	Oil Changed		Client Info		N/	Α	N/A	N/A
	Filter Changed		Client Info		N/	Ά	N/A	N/A
	Sample Status				SE	EVERE	ABNORMAL	ABNORMAL
	Iron	ppm	ASTM D5185m	>100		21	14	11
	Chromium	ppm	ASTM D5185m	>20		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	_	0	0	<1
	Titanium	ppm	ASTM D5185m	0		0	<1	1
	Silver	ppm	ASTM D5185m	>3		0	0	0
	Aluminum	ppm	ASTM D5185m	>20		10	5	/
	Lead	ppm	ASTM D5185m	>40		U I	0	0
	Copper	ppm	ASTM D5185m	>330		<1	<	<
		ppm	ASTM D5185M	>15		<1	< 1	< 1
	Vanadium	ppm	ASIM D5185M	NONE		0		U
	Volte Metal	scalar	*Visual	NONE		NONE	NONE	NONE
	Yellow Metal	scalar	visual	NONE			NONE	NONE
	Silicon	maa	ASTM D5185m	>25		7	7	5
	Potassium	mag	ASTM D5185m	>20		6	5	13
	Fuel	%	ASTM D3524	>5		9.2	6.2	5.9
	Water		WC Method	>0.2		NEG	NEG	NEG
	Glycol		WC Method			NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3		0.6	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20		8.9	8.0	7.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30		22.0	20.9	19.7
	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
						•		
	Sodium	ppm	ASTM D5185m	>50		2	1	2
	Boron	ppm	ASTM D5185m			240	362	262
	Barium	ppm	ASTM D5185M			0	0	0
	Manganaga	ppm	ASTM D5185m			/5	79	76
	Magnosium	ppm	ASTM DE105m			<1	200	< 1
	Caloium	ppm				1072	1204	1205
	Phosphorue	ppm	ASTM D5185m			946	1068	1001
	Zinc	ppm	ASTM D5185m			1175	1181	12/7
	Sulfur	nnm	ASTM D5185m			3308	3354	3780
	Oxidation	Ahs/ 1mm	*ASTM D7414	>25		17.6	16.3	14.9
	Base Number (BN)	ma KOH/a	ASTM D2896	~		6.5	6.7	5.9
	Visc @ 100°C	cSt	ASTM D2000	14.4		11.2	11.8	11.5
					-	/		



Contact/Location: SCOTT SULLIVAN - MSCDUR Page 2 of 2