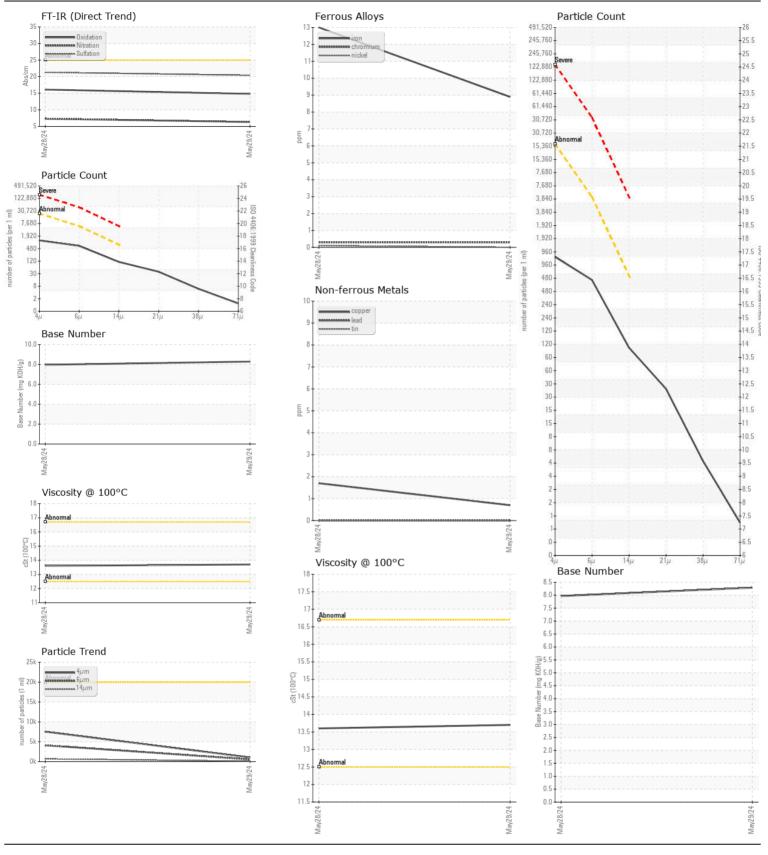
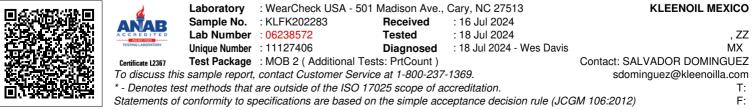


## Machine Id CASE 165 PUMA 35317 **Diesel Engine**

## CHEVRON DELO 400 50T 15W40 - API CK 4/5N (17 QTS)

				<b>·</b> ····			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		KLFK202283		
Resample at the next service interval to monitor.	Sample Date		Client Info		29 May 2024	28 May 2024	
	Machine Age	hrs	Client Info		27572	27909	
	Oil Age	hrs	Client Info		354	691	
	Filter Age	hrs	Client Info		354	691	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m		9	13	
	Chromium	ppm	ASTM D5185m		<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>20	2	3	
	Lead	ppm	ASTM D5185m	>40	0	0	
	Copper	ppm	ASTM D5185m	>330	<1	2	
	Tin	ppm	ASTM D5185m	>15	0	0	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	
	Potassium	ppm	ASTM D5185m	>20	2	2	
The system cleanliness is acceptable for your target ISO 4406	Fuel		WC Method	>5	<1.0	<1.0	
cleanliness code. The system and fluid cleanliness is acceptable.	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.3	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	6.3	7.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	21.3	
	Particles >4µm		ASTM D7647		1044	7534	
	Particles >6µm		ASTM D7647		569	4104	
	Particles >14µm		ASTM D7647	>640	97	698	
	Particles >21µm		ASTM D7647		33	235	
	Particles >38µm		ASTM D7647	>40	5	36	
	Particles >71µm		ASTM D7647		1	4	
	Oil Cleanliness		ISO 4406 (c)		17/16/14	0 20/19/17	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	2	
	Boron	ppm	ASTM D5185m		376	295	
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		0	0	
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		85	85	
	Manganese	ppm	ASTM D5185m		0	0	
	Magnesium	ppm	ASTM D5185m		360	346	
	Calcium	ppm	ASTM D5185m		1361	1366	
	Phosphorus	ppm	ASTM D5185m		1036	1041	
	Zinc	ppm	ASTM D5185m		1237	1239	
	Sulfur	ppm	ASTM D5185m		3174	3131	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	16.1	
	Base Number (BN)			-	8.29	7.97	
	Visc @ 100°C	cSt	ASTM D445		13.7	13.6	
		001	/10/111/0/110			10.0	





Contact/Location: SALVADOR DOMINGUEZ - KLEMEX Page 2 of 2