

BOWERS [Z20005] HINO GDR330-REGO

Component Diesel Engine

CHEVRON DELO 400 MULTIGRADE 15W40 (16 LTR)

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		WC06224137		
	Sample Date		Client Info		13 Jun 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				MARGINAL		
WEAD				400			
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		22		
	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Silicon			. 05	10		
CONTAMINATION		ppm	ASTM D5185m		13		
Light fuel dilution occurring.	Potassium	ppm	ASTM D5185m		1		
	Fuel Water	%	ASTM D3524		▲ 2.2 NEG		
			WC Method	>0.2			
	Glycol	0/	WC Method	0	NEG		
	Soot % Nitration	%	*ASTM D7844		0.9 6.8		
		Abs/cm	*ASTM D7624	>20			
	Sulfation	Abs/.1mm	*ASTM D7415		22.9		
	Silt Debris	scalar	*Visual	NONE	NONE NONE		
	Sand/Dirt	scalar	*Visual *Visual	NONE NONE	NONE		
		scalar					
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML		
					NEG		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4		
	Boron	ppm	ASTM D5185m	151	343		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		84		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	0	371		
	Calcium	ppm	ASTM D5185m		1340		
	Phosphorus	ppm	ASTM D5185m		1047		
	Zinc		ASTM D5185m		1214		
	Sulfur	ppm ppm	ASTM D5185m		3099		
	Oxidation	Abs/.1mm	*ASTM D5185111		16.1		
	Uxidation	MU5/.111111	AGTIVI D7414	>20	10.1		

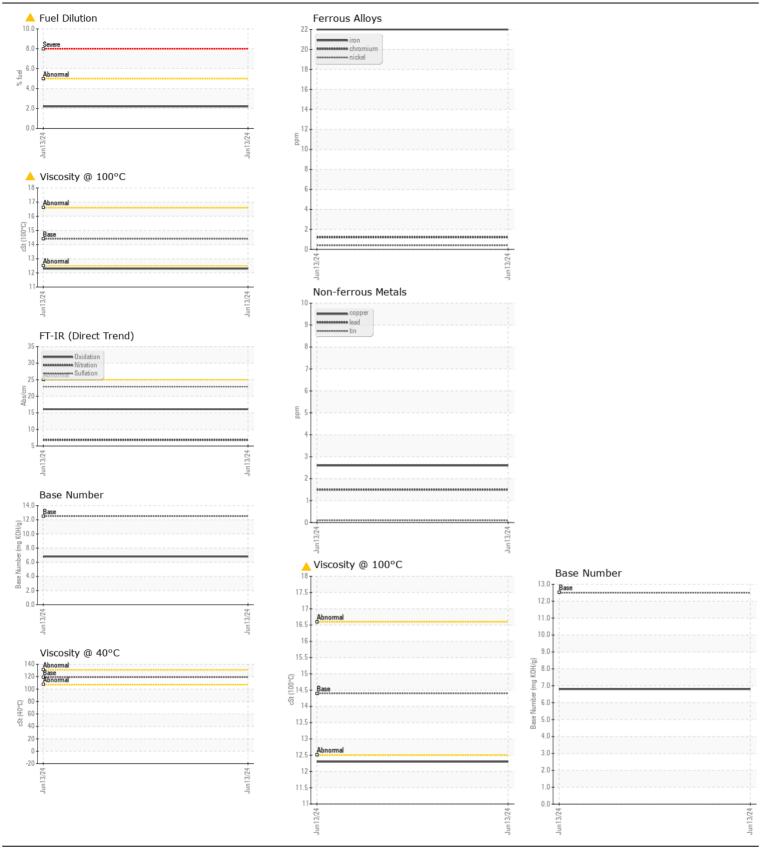
Base Number (BN) mg KOH/g ASTM D2896 12.5

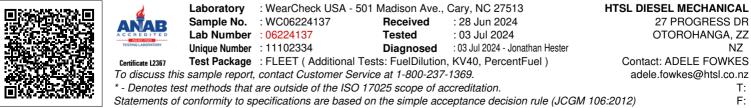
ASTM D445 14.4

Visc @ 100°C cSt

6.8

12.3





Contact/Location: ADELE FOWKES - HTSOTO Page 2 of 2