

## **OIL ANALYSIS REPORT**

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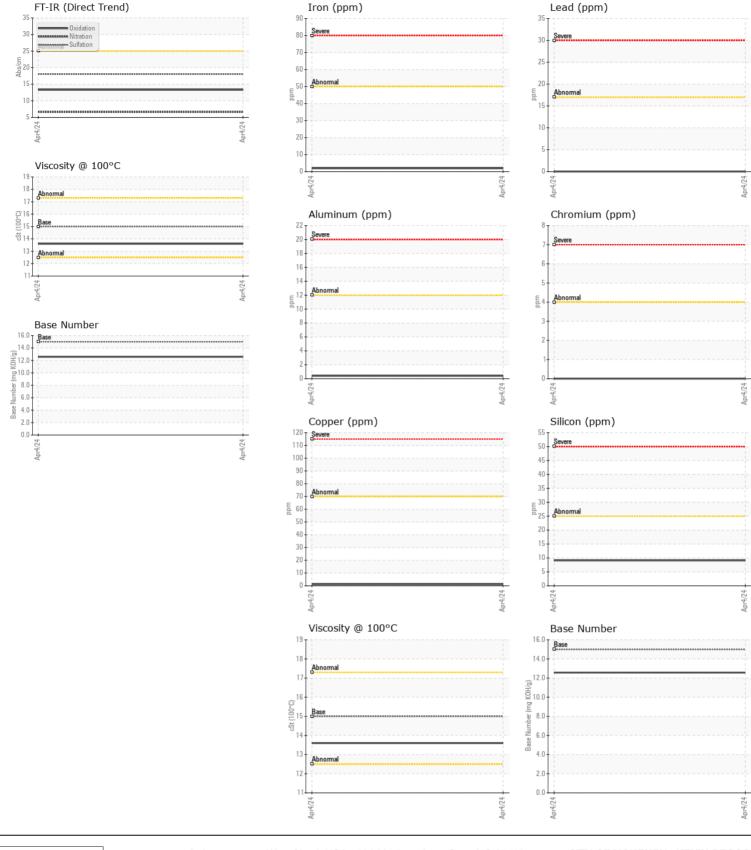
## Machine Id CUMMINS POWER GEN DONOVAN LIFT Component Right Genset Fluid TRC PRO-SPEC IV HD 5W40 (10 QTS)

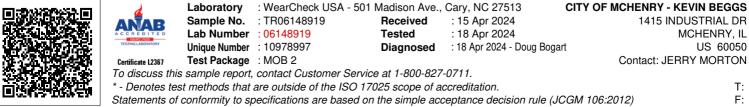
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06148919		
	Sample Date		Client Info		04 Apr 2024		
	Machine Age	hrs	Client Info		829		
	Oil Age	hrs	Client Info		63		
	Filter Age	hrs	Client Info		63		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m		2		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m	>2	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		<1		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		1		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m	NONE	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9		
	Potassium	ppm	ASTM D5185m	>20	<1		
There is no indication of any contamination in the oil.	Fuel		WC Method	>4.0	<1.0		
	Water		WC Method	>0.1	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0		
	Nitration	Abs/cm	*ASTM D7624	>20	6.6		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Sodium	ppm	ASTM D5185m		2		
	Boron	ppm	ASTM D5185m		1		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		23		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		380		
	Calcium	ppm	ASTM D5185m	4500	2763		
	Phosphorus	ppm	ASTM D5185m		829		
	Zinc	ppm	ASTM D5185m	1200	992		
	Sulfur	ppm	ASTM D5185m		3807		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3		
	Base Number (BN)	mg KOH/g	ASTM D2896	15	12.57		
	Vice @ 100°C	oSt.	ASTM D445	15	126		

Visc @ 100°C cSt

ASTM D445 15

13.6





Contact/Location: JERRY MORTON - CITMCH Page 2 of 2