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Report Date: 2/6/2019

Adenosine Triphosphate (ATP) Report

OLA Client:	True Clear Water Solutions	Log Out Date:	2/6/19
Sales Rep:	John Ayres	Analyst:	RWS

Sample ID	Sample Date	Operator	Region	Lease	Location	cATP (pg/ml)
01190131417	1/31/19	Crown Quest	Permian	Raw	200	710
01190131418	1/31/19	Crown Quest	Permian	Treated	180	< 10.0

QGO-M cATP Interpretation Guidelines

Application	Good Control	Preventative Action	Corrective Action
	(pg cATP/mg)		
Finished Fuels Conventional Lubricants *	< 10	10 to 100	> 100
Polymers, Admixes, Personal Care, Home Care	< 100	100 to 1,000	> 1,000
Crude Oil, Fuel Associated Water, Oily Brines, Chemical Products, Oilfield Waters	< 100	100 to 1,000	>1,000
Metal Working Fluids, Fire Retardant Lubricants	< 1,000	1,000 to 10,000	> 10,000

* The interpretation guidelines provided above are based on samples that meet defined standards (from ASTM, ISO or otherwise) for water content. For example, diesel fuels should contain ≤ 500 ppm water and sediment (per ASTM D 975 and D 7467), while jet fuels should contain ≤ 30 ppm, (per ASTM D 1655). If the sample has greater water content than defined as acceptable by the standard, interpretation guidelines may vary. Contact LuminUltra for interpretation advice.

Note: These interpretation guidelines are designed for generic risk management guidance only. Users are encouraged to establish their own control ranges on which to base process decisions. LuminUltra and its affiliates of not accept any liability for any decision or assessment taken or made as a consequence of using this test kit.