

ANALYSIS REPORT

Machine Type:	Reservoir	Received:	09/10/2018	ATTN:
Fluid In Use:	UNKNOWN	Report:	09/10/2018	
Lube Brand:	UNKNOWN	Model:		
Make:	UNKNOWN			

Date		9/10/2018					
Lab Number	NEW OIL	2328516					
Lube Miles		Unknown					
Machine Miles		0					

SPECTROSCOPIC ANALYSIS (ppm) ASTM D5185 Mod

Iron		9					
Copper		0					
Lead		0					
Aluminum		5					
Tin		0					
Nickel		0					
Chromium		0					
Titanium		3					
Vanadium		0					
Silver		0					
Silicon		19					
Boron		35					
Calcium		1367					
Magnesium		1062					
Phosphorus		748					
Zinc		921					
Barium		0					
Molybdenum		233					
Sodium		21					
Potassium		0					

PHYSICAL PROPERTIES

Viscosity @ 40C ASTM D 445 Mod		51.0					
Viscosity @ 100C ASTM D 445 Mod		9.3					
Viscosity Index ASTM D 2270 *		167					
Base Number		5.30 ‡					
Acid Number ASTM D 974		3.74					

IR (Indexing Numbers) JOAP Method

Oxidation		55					
Nitration		11					
Antiwear		25					
Sulfation		53					
Glycol		0					
Soot (%)		0.0					

SINGLE COMPONENT TESTS

Water ppm		770 (a)					
Fuel Dilution % By GC *		1.1					

ISO/IEC 17025:2005 L-A-B Accredited Certificate Number 2221 Testing. (*) - Not in scope of accreditation. TBN Methods: († - ASTM D4739), (‡ - IWI-390 *).
 Water Methods: (a - ASTM D6304 C), (b - IWI-134 *), (c - Crackle Test), (d - IWI-135 *), (e - IWI-370 *). OnBoard Clean Oil Power assumes sole responsibility for the application
 of and reliance upon results and recommendations reported by TestOil, whose obligation is limited to good faith performance. Insight Services ®