Machine Condition

NORMAL

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Machine Name: Lexus RC-F

	Analysis Report											
		C	omponent Ir	formation								
			ne Engine Sump Size: 9.8				Sample Information Received: 08/16/2017			Lucas Dynamics		
				nts/BioSyn HD 5w30			Report: 08/16/2017					
Machine MFG: LEXUS						Sample No.:						
Machine MOD: RC-F							Analyst/Test: ETR / LD4			Contact: Daniel Mackey		
			CUSTOMER NOTES			Mach Hours: 25000 *						
Da	te Sampled	[NEW OIL	8/15/2017						Iron		
	o No			2021500					200			
Ma	Machine / Lube Cond.			N / N					160			
Lu	ne Hours			5000	6400				120			
	chine Hours			25000					80 40			
ELE		OSCOPY (p	pm) ASTM D5185		s below detection	limit			0	8/15/2017		
	Iron			5	<u>11</u> 11	<u></u>						
	Copper Lead			-	11		_		200	Copper		
s	Aluminum			2	3		_		160			
letal	Tin			-					120			
Wear Metals	Nickel			-					80 40			
	Chromium			-					⊸	• · · · · · · · · · · · · · · · · · · ·		
	Titanium			-						8/15/2017		
	Vanadium			-						Viscosity @ 40C		
	Silver			-			_		72.0 68.0			
	Calcium			2093			_		64.0 60.0	•		
es	Magnesium			119			_		56.0 52.0			
Additives	Phosphorus			956 1101			-		48.0			
Ad	Zinc Barium			-					44.0	8/15/2017		
	Molybdenum			-	21				-	Viscosity @ 100C		
	Silicon			5	5				18.0			
ants	Boron			53	61				14.0 12.0			
amin	Lithium			-					10.0 8.0	•		
Contaminants	Sodium			-					6.0			
0	Potassium			-					4.0	8/15/2017		
FTIR SPECTROSCOPY (Inde		(Indexing	Numbers) ASTM	E2412			-			Base Number		
-	idation			101	105				5.5			
-	/col			0	5				4.5 4.0			
So	ot el Dilution			3	5				3.5 3.0 2.5	•		
	RTICLE COUNT (pa	articles ner	ml) ISO 4406-99	0					2.0 1.5			
) Code	- The per	21/18/15	17/16/12					1	8/15/2017		
	Micron			945					1			
>6 Micron				367]			
>14 Micron				28								
	>50 Micron			1	67							
	>100 Micron			0								
	VISCOSITY (centistokes) AS		D445 MOD	60.1	57.22				4			
	Viscosity@40°C Viscosity@100°C			60.1 10.8	10.18				-			
	COSITY INDEX (VI			10.0	10.10							
	cosity Index			173.0	167				1			
	SE NUMBER (mg k	KOH/g) †-	ASTM D4739 ‡	- IWI-390								
	se Number			3.40 ‡	7.48	6						
	ACID NUMBER (mg KO		M D974 MOD	4 = 0								
Ac	Acid Number			1.78	2.68	<u></u>			L			

Testing performed by Insight Services ®, an ISO/IEC 17025:2005 accredited laboratory L-A-B Accredited Certificate Number 2221 Testing. (*) - Not in scope of accreditation. Lucas Dynamics - Roselle assumes sole responsibility for the application of and reliance upon results and recommendations reported by Lucas Dynamics, whose obligation is limited to good faith performance.

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Lubricant Condition

NORMAL Machine Name: Lexus RC-F

					Analysis	s Report		
Date Sampled	New	8/15/2017						
Lab No	0	2021500						
Machine / Lube Cond.		N / N						
WATER (%) a-ASTM D6304C b-IWI-134* c-Crackle d-IWI-135* e-IWI-370*								
Water		0.0281 (a)	940ppm	60				
FUEL DILUTION BY GC (%)								
Fuel Dilution		1.2	2.95%	6				

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