



OIL REPORT

LAB NUMBER:
 REPORT DATE: 9/2/2016
 CODE: 22/501

UNIT ID:
 CLIENT ID:
 PAYMENT:

UNIT	EQUIP. MAKE/MODEL: Virgin 5W/40	OIL TYPE & GRADE: Joe Gibbs DT40 - 5W/40
	FUEL TYPE:	OIL USE INTERVAL:
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS The TBN of this oil starts out pretty high at 9.5, so there's lots of active additive in this oil to begin with. The trace of metals in this sample are common in virgin samples, so they're fine. The main detergent/dispersant additive is calcium, while phosphorus and zinc are anti-wear additives. The viscosity read in the proper range for a 5W/40 grade oil, and no water or insolubles were found. Based on these results, this oil is in serviceable condition.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil		UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit							
	Sample Date	8/30/2016						
	Make Up Oil Added							
ALUMINUM	1	1						1
CHROMIUM	0	0						0
IRON	1	1						1
COPPER	0	0						0
LEAD	0	0						0
TIN	0	0						0
MOLYBDENUM	0	0						56
NICKEL	0	0						0
MANGANESE	0	0						0
SILVER	0	0						0
TITANIUM	1	1						0
POTASSIUM	1	1						1
BORON	1	1						40
SILICON	3	3						6
SODIUM	8	8						6
CALCIUM	2651	2651						2245
MAGNESIUM	8	8						235
PHOSPHORUS	1010	1010						957
ZINC	1170	1170						1069
BARIUM	0	0						0

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	72.1	66-78				
	cSt Viscosity @ 100°C	13.50	11.9-15.3				
	Flashpoint in °F	440	>410				
	Fuel %	-	<2.0				
	Antifreeze %	-	0.0				
	Water %	0.0	<0.1				
	Insolubles %	0.0	<0.8				
	TBN	9.5	>1.0				
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com