



OIL REPORT

LAB NUMBER: F94358
 REPORT DATE: 1/30/2014
 CODE: 63/75

UNIT ID: EDGE SPORT
 CLIENT ID:
 PAYMENT: Prepaid

UNIT	MAKE/MODEL: Virgin 10W/60	OIL TYPE & GRADE: Castrol Edge Sport 10W/60
	FUEL TYPE:	OIL USE INTERVAL: 0
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS JOE: This is the sample of unused Castrol Edge Sport 10W/60, and the only real difference between this oil and the other one is the titanium additive. There's no titanium here. All the other additives are reading at pretty similar levels to the Edge Professional oil. There's also 1 ppm each of aluminum and iron in this sample, but again, that's not really unusual to find in unused oils. No contamination was found in this sample. Note that silicon is a little higher here, so that element might read a little high in the used oil samples. It's likely an anti-foam additive.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	0	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit							
	Sample Date	01/26/14						
	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	198	198					38	
NICKEL	0	0					0	
MANGANESE	1	1					0	
SILVER	0	0					0	
TITANIUM	0	0					4	
POTASSIUM	2	2					2	
BORON	66	66					105	
SILICON	9	9					6	
SODIUM	2	2					2	
CALCIUM	3014	3014					2016	
MAGNESIUM	10	10					274	
PHOSPHORUS	869	869					822	
ZINC	990	990					970	
BARIUM	0	0					0	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	104.7	85-120				
	cSt Viscosity @ 100°C	21.45	16.8-25.2				
	Flashpoint in °F	445	>410				
	Fuel %	-	<2.0				
	Antifreeze %	-	0.0				
	Water %	0.0	<0.1				
	Insolubles %	0.0	<0.6				
	TBN						
	TAN						
	ISO Code						

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE



OIL REPORT

LAB NUMBER: F94357
 REPORT DATE: 1/30/2014
 CODE: 63/75

UNIT ID: EDGE PROF
 CLIENT ID:
 PAYMENT: Prepaid

UNIT	MAKE/MODEL: Virgin Oil	OIL TYPE & GRADE: Castrol Edge Professional TWS 10W/
	FUEL TYPE:	OIL USE INTERVAL: 0
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS JOE: This is the virgin sample of Castrol Edge Professional. You didn't tell us what viscosity this oil was supposed to be, but this is in the 10W/60 range. The main additives in this oil are molybdenum, calcium, phosphorus, and zinc. Calcium is a detergent/dispersant additive, and the other three are anti-wear additives. There's also some titanium and boron, as well as few parts per million of some other additives. A part per million here and there of metal is common in virgin oils. No moisture or insolubles (solids) here. This Castrol looks good to use.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	0	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit							
	Sample Date	01/23/14						
	Make Up Oil Added							
ALUMINUM	1							
CHROMIUM	0							
IRON	1							
COPPER	0							
LEAD	0							
TIN	0							
MOLYBDENUM	207							
NICKEL	0							
MANGANESE	0							
SILVER	0							
TITANIUM	44							
POTASSIUM	3							
BORON	66							
SILICON	6							
SODIUM	2							
CALCIUM	3033							
MAGNESIUM	10							
PHOSPHORUS	881							
ZINC	1008							
BARIUM	0							

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	103.7	85-120				
	cSt Viscosity @ 100°C	21.22	16.8-25.2				
	Flashpoint in °F	440	>410				
	Fuel %	-	<2.0				
	Antifreeze %	-	0.0				
	Water %	0.0	<0.1				
	Insolubles %	0.0	<0.6				
	TBN						
	TAN						
ISO Code							

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