



OIL REPORT

LAB NUMBER: Q50660

UNIT ID: N915LA

REPORT DATE: 12/12/2022

CLIENT ID: 213220

CODE: 20/88

PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Austro E4-A	OIL TYPE & GRADE: Aeroshell Diesel Ultra
	FUEL TYPE: Diesel	OIL USE INTERVAL: 80 Hours
	ADDITIONAL INFO: Diamond DA40NG, S/N E4-A-05030	

CLIENT	DAVID JOHNSON	PHONE: (757) 450-4476
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	LONE TREE, CO 80124	ALT PHONE:
		EMAIL: davidarliss@outlook.com

COMMENTS	DAVID: Thanks for noting the Mandatory Service Bulletin No. MSB-E4-039/0. It regards the pistons, which generate aluminum as they wear. Since aluminum is slightly below average in this sample (and well below the 8-ppm limit), there aren't any obvious issues developing in this area. Other wear metals also appear healthy in their amounts as well as their proportions in relation to one another. No measurable contamination is present, and low insolubles speak to complete combustion and effective oil filtration. Looks good from our vantage point at 378.9 hours SNew.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	80	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	379							
	Sample Date	11/16/2022							
	Make Up Oil Added	0.5 qts							
	ALUMINUM	2	2						3
	CHROMIUM	3	3						2
	IRON	51	51						47
	COPPER	2	2						2
	LEAD	0	0						1
	TIN	0	0						0
	MOLYBDENUM	1	1						1
	NICKEL	1	1						0
	MANGANESE	1	1						0
	SILVER	0	0						0
	TITANIUM	0	0						0
	POTASSIUM	1	1						1
	BORON	70	70						69
	SILICON	6	6						6
	SODIUM	3	3						3
	CALCIUM	2843	2843						2891
	MAGNESIUM	23	23						18
	PHOSPHORUS	929	929						925
	ZINC	1034	1034						1061
	BARIUM	0	0						0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	67.0	62-72					
	cSt Viscosity @ 100°C	12.15	10.8-13.5					
	Flashpoint in °F	430	>410					
	Fuel %	<0.5	<2.0					
	Antifreeze %	0.0	0.0					
	Water %	0.0	<0.1					
	Insolubles %	0.2	<0.6					
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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