

Area

Area ROBB KENYON [DANIEL/502471] Machine Id CUMMINS G14071549 Component Genset Fluid CUMMINS CUMMINS BLUE 2000 15W40 (GA	L)	
RECOMMENDATION	Test	UO
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number Sample Date	
	Machine Age	hrs
	Oil Age	hrs
	Filter Age	hrs
	Oil Changed	
	Filter Changed	
	Sample Status	
WEAR	Iron	ppr
	Chromium	ppr
All component wear rates are normal.	Nickel	ppr
	Titanium	ppr
	Silver	ppr
	Aluminum	ppr
	Lead	ppr
	Copper	ppr
	Tin	ppr
	Vanadium	ppr
	White Metal	sca
	Yellow Metal	sca

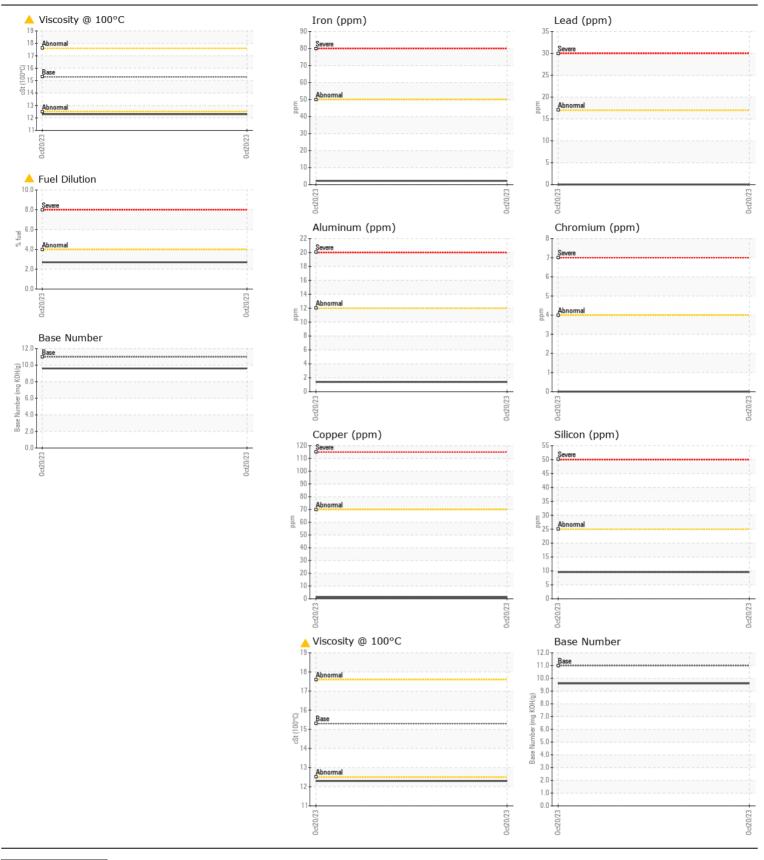
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Light fuel dilution occurring.

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA059145		
Sample Date		Client Info		20 Oct 2023		
Machine Age	hrs	Client Info		329		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
Iron	ppm	ASTM D5185m	>50	2		
Chromium	ppm	ASTM D5185m	>4	0		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>5	0		
Aluminum	ppm	ASTM D5185m	>12	1		
Lead	ppm	ASTM D5185m	>17	0		
Copper	ppm	ASTM D5185m	>70	1		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>25	10		
Potassium	ppm	ASTM D5185m	>20	0		
Fuel	%	ASTM D3524	>4.0	2 .7		
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
Soot %	%	*ASTM D7844		0.1		
Nitration	Abs/cm	*ASTM D7624	>20	5.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
Sodium	nom	ASTM D5185m		4		
Boron	ppm	ASTM D5185m	1.7	4 61		
Barium	ppm	ASTM D5185m	0.1			
Molybdenum	ppm	ASTM D5185m ASTM D5185m	0.1	0 66		
Manganese	ppm	ASTM D5185m	0.0	<1		
Magnesium	ppm	ASTM D5185m	12	<1 914		
Calcium	ppm		12 2946			
	ppm	ASTM D5185m		1086		
Phosphorus	ppm	ASTM D5185m	1002	788		
Zinc	ppm	ASTM D5185m	1288	1154		
Sulfur	ppm	ASTM D5185m	5265	3052		
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1		
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	9.6		
Visc @ 100°C	cSt	ASTM D445	15.3	12.3		



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Endor Marine LLC - Coastal Marine - 152124 Sample No. Received 4300 11th Ave. NW : VPA059145 : 25 Oct 2023 Lab Number : 05988893 Tested : 27 Oct 2023 SEATTLE, WA US 98107 Unique Number : 10711555 Diagnosed : 27 Oct 2023 - Sean Felton Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: WILLOW YANARELLA Certificate L2367 service@coastalmarineengine.com To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (206)784-3703 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (206)784-8823