

MARINE DIESEL AND ENGINEERING

Machine ID: MAGIC
Machine Year : NA

Component ID: 463034921
Component Make: CUMMINS
Component Model: 4BT 3.9D
Component Year: NA
Component Type : DIESEL ENGINE
Component Location: PORT GENERATOR
Sump Capacity: 12 Quarts

Phone:
Email:
Fax:

Component Description:

M/C

MOTORCHECK LAB
2000 N FLORIDA MANGO RD 104
WEST PALM BEACH FL 33409
561-684-7799

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
32447	8/21/2026	2290	150	15W40	UNKNOWN	UNKNOWN	No	8/21/2026	
Comments	ALL ENGINE WEAR RATES NORMAL. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. ANALYSIS INDICATES PROPER PERFORMANCE OF THE LUBRICANT AND UNIT.								

	Wear Metals(ppm)							Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additives (ppm)				
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
Sample ID	32447	5	9	<2	<2	<2	X	6	<2	<2	X	<2	X	X	X	X	X	X	X	X

	Contaminants				Physical Properties									
		Fuel	Soot	Water	Glycol	Nitration	TBN	Oxidation	V40C	V100C	VIndex	V40C Limit	V100C Limit	Visc Mode
		-	<0.1	<0.1	-	2.1	8.1	<2.0	109	14.4	135	92 - 124	12.5 - 16.3	C

ABNORMAL

SEVERE

D = DETECTED

- = NOT DETECTED

X = NOT TESTED / NOT APPLICABLE

NA = NOT AVAILABLE

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M = MEASURED

MARINE DIESEL AND ENGINEERING		Machine ID: MAGIC Machine Year : NA		Component ID: 46399045 Component Make: CUMMINS Component Model: 4BT-3.9D Component Year: NA Component Type : DIESEL ENGINE Component Location: STARBOARD GENERATOR		 MOTORCHECK LAB 2000 N FLORIDA MANGO RD 104 WEST PALM BEACH FL 33409 561-684-7799	
Phone: _____ Email: _____ Fax: _____		Component Description:				Sump Capacity: 12 Quarts	

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
32448	8/21/2026	2478	150	15W40	UNKNOWN	UNKNOWN	No	8/21/2026	
Comments	ALL ENGINE WEAR RATES NORMAL. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. ANALYSIS INDICATES PROPER PERFORMANCE OF THE LUBRICANT AND UNIT.								

	Wear Metals(ppm)						Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additives (ppm)					
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
Sample ID	6	13	<2	<2	<2	<2	X	5	<2	<2	X	<2	X	X	X	X	X	X	X	X

	Contaminants				Physical Properties									
	Fuel	-												
	Soot	<0.1												
	Water	<0.1												
	Glycol	-												
	Nitration	2.0												
	TBN	8.2												
	Oxidation	<2.0												
	V40C	109												
	V100C	14.4												
	VIndex	135												
	V40C Limit	92 - 124												
	V100C Limit	12.5 - 16.3												
	Visc Mode	C												

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MARINE DIESEL AND ENGINEERING

Machine ID: MAGIC
Machine Year : NA

Component ID: 53620025731
Component Make: MTU
Component Model: 16V2000
Component Year: NA
Component Type : DIESEL ENGINE
Component Location: PORT MAIN
Sump Capacity: 45 Gallons

Phone:
Email:
Fax:

Component Description:

MOTORCHECK LAB
2000 N FLORIDA MANGO RD 104
WEST PALM BEACH FL 33409
561-684-7799

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
32449	8/21/2026	6029	150	15W40	UNKNOWN	UNKNOWN	No	8/21/2026	
Comments	ALL ENGINE WEAR RATES NORMAL. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. ANALYSIS INDICATES PROPER PERFORMANCE OF THE LUBRICANT AND UNIT.								

Wear Metals(ppm)		Contaminant Metals (ppm)		Multi-Source Metals (ppm)			Additives (ppm)							
Sample ID	Iron	5	Chromium	12	Aluminum	<2	Copper	<2	Lead	<2	Tin	<2	Vanadium	X
	Aluminum	<2												
	Chromium	12												
	Copper	<2												
	Lead	<2												
	Tin	<2												
	Vanadium	X												
Sample ID	32449													
Sample ID	32449													
Sample ID	32449													
Sample ID	32449													
Sample ID	32449													
Sample ID	32449													
Sample ID	32449													
Sample ID	32449													
Sample ID	32449													
Sample ID	32449													
Sample ID	32449													
Sample ID	32449													

	Contaminants				Physical Properties									
	Fuel	-			V40C	109	14.4	135	92 - 124	12.5 - 16.3	V100C Limit		Visc Mode	C
	Soot	<0.1			Nitration	2.1	8.2	<2.0			Oxidation			
	Water	<0.1			TBN									
	Glycol	-												
Sample ID				32449										

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MARINE DIESEL AND ENGINEERING		Machine ID: MAGIC Machine Year : NA		Component ID: 53620025751 Component Make: MTU Component Model: 16V2000 Component Year: NA Component Type : DIESEL ENGINE Component Location: STARBOARD MAIN		 MOTORCHECK LAB 2000 N FLORIDA MANGO RD 104 WEST PALM BEACH FL 33409 561-684-7799	
Phone: Email: Fax:		Component Description:				Sump Capacity: 40 Gallons	

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
32450	8/21/2026	6029	150	15W40	UNKNOWN	UNKNOWN	No	8/21/2026	
Comments	ALL ENGINE WEAR RATES NORMAL. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. ANALYSIS INDICATES PROPER PERFORMANCE OF THE LUBRICANT AND UNIT.								

	Wear Metals(ppm)							Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additives (ppm)				
	Iron	Chromium	Aluminum	Copper	Lead	Tin	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Nickel	Manganese	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
32450	5	12	<2	<2	<2	<2	X	3	<2	<2	X	<2	X	X	X	X	X	X	X	X

	Contaminants				Physical Properties									
	Fuel	-												
	Soot	<0.1												
	Water	<0.1												
	Glycol	-												
	Nitration	2.1												
	TBN	8.1												
	Oxidation	<2.0												
	V40C	109												
	V100C	14.4												
	VIndex	135												
	V40C Limit	92 - 124												
	V100C Limit	12.5 - 16.3												
	Visc Mode	C												

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MARINE DIESEL AND ENGINEERING

Machine ID: MAGIC
Machine Year : NA

Component ID: 500107191
Component Make: ZF
Component Model: 2565
Component Year: NA
Component Type : GEARBOX
Component Location: PORT
Sump Capacity: 5 Gallons

Phone:
Email:
Fax:

Component Description:

MOTORCHECK LAB
2000 N FLORIDA MANGO RD 104
WEST PALM BEACH FL 33409
561-684-7799

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
32451	8/21/2026	6029	150	SAE 40	UNKNOWN	UNKNOWN	No	8/21/2026	
Comments	CHROMIUM LEVEL HIGHER THAN NORMAL. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. DRAIN OIL FROM UNIT IF NOT ALREADY DONE.								

Wear Metals(ppm)		Contaminant Metals (ppm)		Multi-Source Metals (ppm)					Additives (ppm)					
Sample ID	Iron	5	Chromium	16	Aluminum	<2	Copper	<2	Lead	59	Tin	<2	Vanadium	X
	Chromium	16		Aluminum	<2	Copper	<2	Lead	59	Tin	<2	Vanadium	X	
	Aluminum	<2		Copper	<2	Lead	59	Tin	<2	Vanadium	X			
	Copper	<2		Lead	59	Tin	<2	Vanadium	X					
	Lead	59		Tin	<2	Vanadium	X							
	Tin	<2		Vanadium	X									
	Vanadium	X												
Sample ID	32451	Zinc	X	Phosphorus	X	Barium	X	Calcium	X	Magnesium	X			
	32451		X		X		X		X					
	32451		X		X		X		X					
	32451		X		X		X		X					
	32451		X		X		X		X					

	Contaminants				Physical Properties																		
		Fuel	X			Nitration	X		TBN	X		Oxidation	158	V40C	14.4	V100C	88	V40C Limit	133 - 181	V100C Limit	12.5 - 16.3	Visc Mode	C
		Soot	X																				
		Water	<0.1																				
		Glycol	X																				
	Sample ID	32451																					

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MARINE DIESEL AND ENGINEERING

Machine ID: MAGIC
Machine Year : NA

Component ID: 500107201
Component Make: ZF
Component Model: 2565
Component Year: NA
Component Type : GEARBOX
Component Location: STARBOARD

Phone:
Email:
Fax:

MOTORCHECK LAB
2000 N FLORIDA MANGO RD 104
WEST PALM BEACH FL 33409
561-684-7799

Component Description:

Sump Capacity: 5 Gallons

Sample ID	Date Taken	Hours on Component	Hours on Oil	Oil Weight	Oil Brand	Oil Type	Oil Changed	Date Analyzed	User Sample ID
32452	8/21/2026	6029	150	SAE 40	UNKNOWN	UNKNOWN	No	8/21/2026	
Comments	CHROMIUM LEVEL HIGHER THAN NORMAL. SAMPLE APPEARS FREE OF EXTERNAL CONTAMINATION. DRAIN OIL FROM UNIT IF NOT ALREADY DONE.								

Wear Metals(ppm)		Contaminant Metals (ppm)		Multi-Source Metals (ppm)					Additives (ppm)										
Sample ID	Iron	8	Chromium	13	Aluminum	<2	Copper	<2	Lead	15	Tin	<2	Vanadium	X					
				</															

	Contaminants				Physical Properties									
		Fuel	Soot	Water	Glycol	Nitration	TBN	Oxidation	V40C	V100C	VIndex	V40C Limit	V100C Limit	Visc Mode
		X	X	<0.1	X	X	X	<2.0	158	14.4	88	133 - 181	12.5 - 16.3	C