

PHONE: 800-282-1562

Web: www.YanceyBros.com Email: SOSLab@yanceybros.com

FUEL TANK 225 GAL

D500-53251-0503

SHOP JOB NUM : B

SAMPLE SHIP TIME (days): 11

Caterpillar BCP - Athens

Facility

RECEIVED DATE: 18-Sep-23

EQUIP NUM:

No Action Required

6304, D5453, D7346, D7689, D6371; EN 14078; ISO 4406.

SERIAL NUMBER:

COMP SERIAL NUM: (

Interp By: Sheeba Ibrahimkutty
Interpreted On: 22-Sep-23

SULFUR LEVEL OF THIS FUEL IS WITHIN THE ULTRA LOW SULFUR DIESEL RANGE. PARTICLE COUNT IS WITHIN ACCEPTABLE GUIDELINES. BACTERIA AND FUNGUS ARE LESS THAN THE LOWER DETECTABLE LIMITS. OTHER ANALYSIS READINGS APPEAR TO BE ACCEPTABLE FOR DIESEL FUEL. FUEL CLEANLINESS IS WITHIN ACCEPTABLE SPECIFICATION. RESAMPLE IN 1 YEAR TO MONITOR. TESTING PERFORMED IN ACCORDANCE TO THE FOLLOWING STANDARDS: ASTM D

		'	
		SAMPLE INFORMA	TION
	1	-	
Sampled Date	28-Aug-23	27-Dec-19	26-Dec-18
Sample Id	D500-53251-0503	D500-50003-0511	D500-48362-0518
Lab Date	08-Sep-23	03-Jan-20	28-Dec-18
Meter [Hr]	262.9	165	136
Comp Meter [Hr]			136
Meter On Fluid	262.9	165	
Fluid Brand			
Fluid Weight			
Fluid Type			DMF2
Fluid Change	U	U	U
Filter Change	U		
	0		

		ELEMEN	NTAL ANALYS	SIS						
		28-Aug-23	27-Dec-19	26-Dec-18						
ELEME	ELEMENTAL ANALYSIS (PPM) ASTM D5185 [OIL] / ASTM D6130 [COOLANT]									
Cu	Copper	0	0	0						
Fe	Iron	0	1	0						
Cr	Chromium	0	0	0						
Al	Aluminum	0	0	0						
Pb	Lead	0	0	0						
Sn	Tin	0	0	0						
Si	Silicon	0	2	0						
Na	Sodium	0		0						
K	Potassium	0		2						
Мо	Molybdenum	0	3	0						
Ni	Nickel	0	1	0						
Ag	Silver	0		0						
Ti	Titanium	0		0						
V	Vanadium	0								
Mn	Manganese	0								
Cd	Cadmium	0								
Ca	Calcium	2	10	9						
Р	Phosphorus	2	8	0						
Zn	Zinc	1	6	7						
Mg	Magnesium	0	3	3						
Ва	Barium	0								
В	Boron	0	1	0						

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Some	fibers	and	l a	small	amo	unt	of	black	oxides	found	on	the	filter	patch.	Test	resu	ılts
are	acceptabl	le.	Fuel	is	clear	and	-	bright.	Fuel	meets	CAT	ISO	clea	nliness	standa	ard	of
18/16/	13. Res	ample	e at th	ne norr	nal inte	rval.											

For additional sample history, go to: my.cat.com

PROPERTIES / PHYSICALS 28-Aug-23 27-Dec-19 26-Dec-18

ELID (DDM) AOTM DE 450

SULFUR (PPM) ASTM D5453

SULFU SULFUR 11

DISTIL	LATION (°C) AS	TM D7345	
BP i	Initial BP	168.3	
10%	10%	205.0	
50%	50%	265.4	
90%	90%	331.1	
BP f	Final BP	352.8	
Recov	% Recovery	97.8	

BIODIE	SEL (%) EN 14078			
Biodi	Biodiesel	0.70	0.00	1.31

CETANE INDEX - ASTM D4737

CI Cetane index 49

DENSITY - ASTM D4052

Densi Density 0.84110

VISCOSITY (CENTISTOKES) ASTM D445

V40 Viscosity at 40 C 2.543

FLASH POINT (°C) ASTM D93

FL Pt Flash Point 67.0

COLO	R - ASTM D6045				
Color	Color	Red	Red	Red	
Clari	Clarity	clear	clear	clear	



No Action Required

CAT C4.4

COMP SERIAL NUM:

SAMPLE INFORMATION
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		-	
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Fluid Weight			
Fluid Type			DMF2
Fluid Change	U	U	U
Filter Change	U		
	0		

PHYSIC	CAL				
Арр	Appearance		RED	RED	
Odor	Fuel Odor		norm	norm	
PAmt	Precip Amount	none	trace	none	
PApp	Precip Appearance		fine	N/A	
PColo	Precipitate Color/ty		Fibers	N/A	
Clear	Clear and Bright CLEAR AND BRIG CLEAR AND BRIG CLEAR AND BRIG				

Color	Color Results	B2
COIOI	COIDI_I (Caulta	

	CLEANLINESS / CONTAMINATION								
		28-Aug-23	27-Dec-19	26-Dec-18					
PARTIC	PARTICLE COUNT - ISO 11171:1999 reported per ISO 4406								
ISO	ISO Code Rating	19/17/15	17/15/10	14/13					
4μ	4μ	3286	700						
6μ	6μ	992	261	153					
10µ	10μ	383							
14µ	14µ	186	8	79					
18µ	18µ	142							
21μ	21µ	102	2	54					
38µ	38µ	10	0	44					
50µ	50µ	2							

WATE	R CONTENT	(%) ASTM D7546 [OIL] / ASTM D6304 [FUEL]	
H2O	Water	0.0008	

MICR	OBIOLOGY				
Bact	Bacteria	<ldl< th=""><th><ldl< th=""><th><ldl< th=""><th></th></ldl<></th></ldl<></th></ldl<>	<ldl< th=""><th><ldl< th=""><th></th></ldl<></th></ldl<>	<ldl< th=""><th></th></ldl<>	
Funa	Fundus	<ldl< th=""><th><ldl< th=""><th><ldl< th=""><th></th></ldl<></th></ldl<></th></ldl<>	<ldl< th=""><th><ldl< th=""><th></th></ldl<></th></ldl<>	<ldl< th=""><th></th></ldl<>	

Fung	Fungus	<ldl< th=""><th><ldl< th=""><th><ldl< th=""><th></th></ldl<></th></ldl<></th></ldl<>	<ldl< th=""><th><ldl< th=""><th></th></ldl<></th></ldl<>	<ldl< th=""><th></th></ldl<>	
OXIDA	TION STABILITY - EN 14112				

OXID_	OXID_STAB	08H 41M

Part	Part Cont	0.01	7.00

Haze	Haze	1	1	

Filto	Filter Access	ם כם	

FUEL TANK 225 GAL

SERIAL NUMBER:

EQUIP NUM: 0

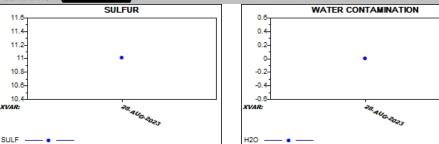
CAT C4.4

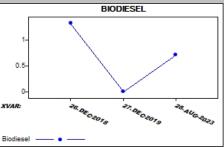
COMP SERIAL NUM:

SULFUR

WATER CONTAMINATION

B





D500-53251-0503

No Action Required

Report Comment

Our sample reports has been updated! For more information on the new report, go to - https://www.youtube.com/watch?v=4h8bREJVUrs. Thank you for choosing the Yancey Brothers SOS Lab. Please click the link below for a brief survey to let us know how we can better serve you. We appreciate your feedback! https://www.surveymonkey.com/create/preview/?sm=qYMuYxeFgWLbaq2SBiQNFPjxGTO0Zvw36i_2F7Jb4rn5o_3D&tab_clicked=

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