

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 084 - MOBIL AST 20W

New (Unused) Oil Fluid {not provided} (--- GAL)

DIAGNOSIS

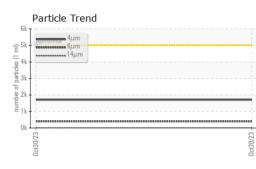
Recommendation

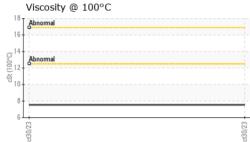
This is a baseline read-out on the submitted sample.

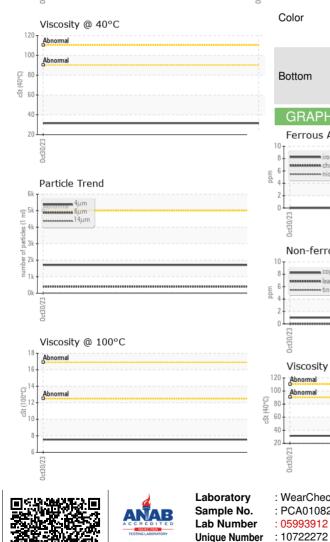
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0108272		
Sample Date		Client Info		30 Oct 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		0		
Chromium	ppm	ASTM D5185m		0		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m		1		
Lead	ppm	ASTM D5185m		0		
Copper	ppm	ASTM D5185m		1		
Tin	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		25		
Calcium	ppm	ASTM D5185m		2946		
Phosphorus	ppm	ASTM D5185m		1010		
Zinc	ppm	ASTM D5185m		1226		
Sulfur	ppm	ASTM D5185m		4215		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		5		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1707		
Particles >6µm		ASTM D7647	>1300	397		
Particles >14µm		ASTM D7647	>160	14		
Particles >21µm		ASTM D7647	>40	2		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/11		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.90		



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VISUAL		method					history	
Vhite Metal	scalar	*Visual	NONE		NONE			
ellow Metal	scalar	*Visual	NONE		NONE			
recipitate	scalar	*Visual	NONE		NONE			
ilt	scalar	*Visual	NONE		NONE			
ebris	scalar	*Visual	NONE		LIGHT			
and/Dirt	scalar	*Visual	NONE		NONE			
ppearance	scalar	*Visual	NORML		NORML			
dor	scalar	*Visual	NORML	-	NORML			
mulsified Water	scalar	*Visual			NEG			
ree Water	scalar	*Visual			NEG			
FLUID PROPE	RTIES	method	limit/ba	ase	current	history1	history	2
isc @ 40°C	cSt	ASTM D445			31.54			
isc @ 100°C	cSt	ASTM D445			7.54			
iscosity Index (VI)	Scale	ASTM D2270			220			
SAMPLE IMAG	ES	method	limit/ba	ase	current	history1	history	2
Color						no image	no image	5
						nonnage	no inage	
				<u></u>				
				1				
ottom						no image	no image	•
GRAPHS								
Ferrous Alloys				F	Particle Count			
			4	91,520 T			I	-26
iron chromium			1	22,880			-	24
nickel				30,720	rvere			-22
/23			/23 ml)	7,680	onormal			20
0ct30/23			Oct30/23 (per 1 ml)	1,920		•		18
Non-ferrous Metal	5		0ct30/23 0ct30/23 0ct30/23	480-	1.			-20 -18 -16
				120-		N		1.4
copper			umbei	120				
ssesses tin			É	30 -	`		-	12
				8 -				10
23	******		23	2-				-8
0ct30/23			0ct30/23					2
∽ Viscosity @ 40°C			J	0 4µ	6µ	14μ 21μ	38µ 71j	6 µ
Abnormal			, -		Acid Number			
Abnormal				Acid Number (mg K0H/g) 1.5 0.0 0.0				
				는 농 1.0				
				4 0.5 -				
+			_					
0ct30/23			0ct30/23					0.000
0			Oct	1	5			1
NearChealt USA 5		an Ava Ca	NO OT	7510				
VearCheck USA - 5 CA0108272	o i Madis Received		ry, NC 2. Oct 2023			- MISSOURI VAL 1722	MANDAN A	
	Diagnos		Nov 2023			., 22		
JJJJJJ12	Jiagnos	 	101 2020)			MANDAN,	1 11