

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id 014 - MOBIL TRANS AST 20

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

DIAGNOSIS

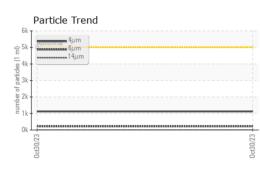
Recommendation

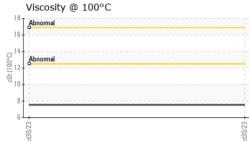
This is a baseline read-out on the submitted sample.

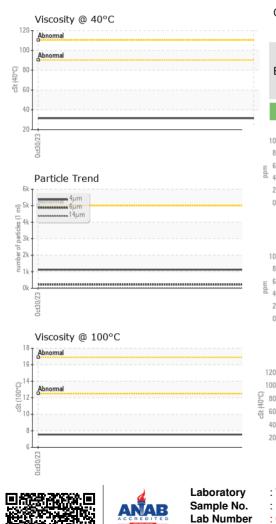
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0108263		
Sample Date		Client Info		30 Oct 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METAL	S	method	limit/base	current	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		24		
Calcium	ppm	ASTM D5185m		2962		
Phosphorus	ppm	ASTM D5185m		1018		
Zinc	ppm	ASTM D5185m		1223		
Sulfur	ppm	ASTM D5185m		4218		
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	1122		
Particles >6µm		ASTM D7647	>1300	216		
Particles >14µm		ASTM D7647	>160	12		
Particles >21µm		ASTM D7647	>40	3		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	17/15/11		
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	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
0ct30/23	Appearance	scalar	*Visual	NORML	NORML		
Oct	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual		NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPER	RTIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445		31.54		
	Visc @ 100°C	cSt	ASTM D445		7.54		
	Viscosity Index (VI)	Scale	ASTM D2270		220		
	SAMPLE IMAGE	ES	method	limit/base	current	history1	history2
0ct30/23	Color					no image	no image
	Bottom					no image	no image
	GRAPHS						
10	Ferrous Alloys			491,520	Particle Count		T 26
8	B						
u d	hickel			122,880	Severe		-24
	1			30,720	F		-22
					Abnormal		-20
	0ct30/23			0ct30/23 (per 1 ml)	[***.		+20 +18 +16 +14
	_			Oces (p			10
10	Non-ferrous Metals			ited 480			-16
	copper			0ct30/25 0ct30/25 120 120 120 120 120 120 120 120 120 120			-14
	6 - management lead			E 30			-12
- <u>-</u>							-10
()						
	0ct30/23			0ct30/23	•		-8
	0			0	4μ 6μ	14µ 21µ	38µ 71µ
120	Viscosity @ 40°C				Acid Number	i ipi	00µ 11µ
120	0			BH0	I		
				¥ 1.5			
)8 CSt (1 0°C) 19				(D) 2.0 HOX Bull Bull HOX Bull HOX BULL	1		
40				20.5			
20							5
	0ct30/23			0ct30/23	0ct30/23		
nple No. : Number :	05993914 D	1 Madia eceived iagnose iagnost	d : 30 (ry, NC 27513 Oct 2023 Nov 2023 athan Hester		MISSOURI VALL 1722	EY PETROLEU MANDAN AV MANDAN, N US 5855

RICHARD.ABERLE@PARKLANDUSA.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: (701)663-5091 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (701)663-9445

Certificate L2367