

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

118 - MOBIL DELVAC 1300 10W30

New (Unused) Oil

Fluid (not provided) (--- GAL)

DIAGNOSIS

A Recommendation

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

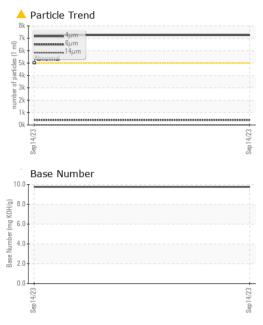
Contamination

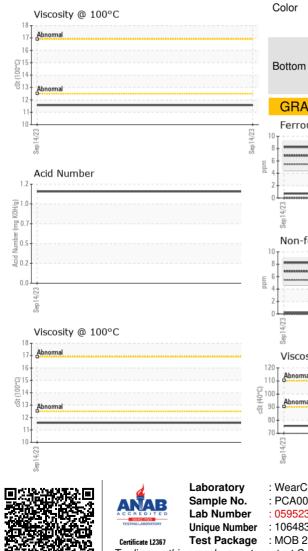
There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0099967		
Sample Date		Client Info		14 Sep 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ATTENTION		
WEAR METALS	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		<1		
Chromium	ppm	ASTM D5185m		0		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m		2		
Lead	ppm	ASTM D5185m		0		
Copper	ppm	ASTM D5185m		<1		
Tin	ppm	ASTM D5185m		<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		69		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		31		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		404		
Calcium	ppm	ASTM D5185m		1386		
Phosphorus	ppm	ASTM D5185m		602		
Zinc	ppm	ASTM D5185m		703		
Sulfur	ppm	ASTM D5185m		2270		
CONTAMINANT	ſS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		7		
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	<u> </u>		
Particles >6µm		ASTM D7647	>1300	405		
Particles >14µm		ASTM D7647	>160	2		
Particles >21µm		ASTM D7647	>40	1		
Particles >38µm		ASTM D7647	>10	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/16/9		
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.11		
Base Number (BN)	mg KOH/g	ASTM D2896		9.76		



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VISUAL		method	limit/base	current	history1	history2
/hite 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	NONE		
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/base	current	history1	history2
isc @ 40°C	cSt	ASTM D445		75.71		
′isc @ 100°C	cSt	ASTM D445		11.57		
iscosity Index (VI)	Scale	ASTM D2270		145		
SAMPLE IMAG	FS	method	limit/base	current	history1	history2
		method			Thotory	Thotory
Color				a	no image	no image
Bottom			1		no image	no image
GRAPHS						
Ferrous Alloys			491,520	Particle Count		т26
iron			122.000			24
nickel			122,880	Severe		-24
			30,720			-22
		*********		Abnormal		-20
14/23			Sep14/23 (per 1 ml			-18
Sep1			Sel Cles (p			
Non-ferrous Metal	s		126'1 ber of particles (per 1 ml) 176'1 er of particles (per 1 ml)			-16
copper			jag 120			-14
seeses lead			E 30			-12
						-10
14/23			Sep 14/23	2		-8
Sep 1			Sep (28
Viscosity @ 40°C				^{4μ} 6μ 14 Acid Number	μ 21μ	38µ 71µ
Abnormal			(B)1.2			
			5.1 (1) 1.1 (1) 1.0 (m) 2.0 (m) 2.0 (m) 2.0 (m) 2.0 (m) 2.0 (m) 2.0 (m) 2.0 (m) 2.1	7		
Abnormal			을 0.5 - 문 0.5	;		
			N 0.2	2		
4/23						c
Sep14/			Sep 14/23	Sep 14/23		5 9 9
0			õ	63		
WearCheck USA - 5	01 Madi	son Ave Ca	rv. NC 2751	3 MVP INC -	MISSOURI VAI I	EY PETROLEU
	Receive		Sep 2023			MANDAN AV
	Diagnos		Sep 2023			MANDAN, N
	Diagnos		athan Hester			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