

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **8913733** Component

Diesel Engine

MOBIL 1 SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

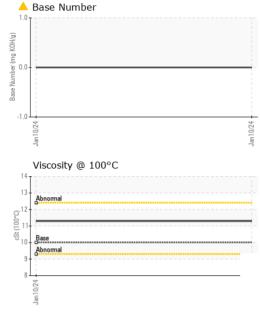
Fluid Condition

The BN level is low. The oil is no longer serviceable.

				Jan 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL0034907		
Sample Date		Client Info		10 Jan 2024		
Machine Age	mls	Client Info		140788		
Oil Age	mls	Client Info		40000		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	81		
Chromium	ppm	ASTM D5185m	>20	3		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	5		
Lead	ppm	ASTM D5185m	>40	36		
Copper	ppm	ASTM D5185m	>330	2		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		17		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		41		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m		474		
Calcium	ppm	ASTM D5185m		1578		
Phosphorus	ppm	ASTM D5185m		759		
Zinc	ppm	ASTM D5185m		911		
Sulfur	ppm	ASTM D5185m		2285		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	20		
Sodium	ppm	ASTM D5185m	. 20	3		
Potassium	ppm	ASTM D5185m	>20	8		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8		
Nitration	Abs/cm	*ASTM D7624	>20	16.9		
Sulfation	Abs/.1mm		>30	38.3		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	56.2		
Base Number (BN)	mg KOH/g	ASTM D2896		△ 0.0		

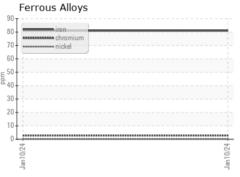


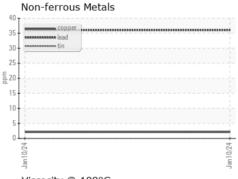
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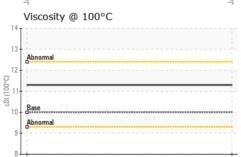


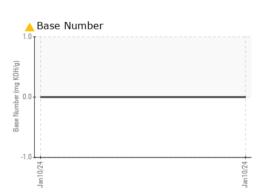
VISUAL		mathad	limit/booo	ou urrount	hiotomut	hiotom ()
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
ELLID DDODEDTIES						
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10	11.3		
ODABUO						

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10834727 Test Package : FLEET

: IL0034907 : 06063345

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 17 Jan 2024 Diagnosed : 19 Jan 2024

Diagnostician : Don Baldridge

IDEALEASE OF ATLANTA - FULTON 4675 BAKERS FERRY ROAD ATLANTA, GA US 30331

Contact: DAVID JOHNS davidjohns@idealease.com

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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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)