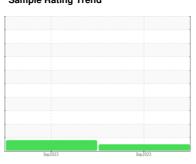


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **229037-603258**

Component Coo Eng

Natural Gas Engine

RDL-3647 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

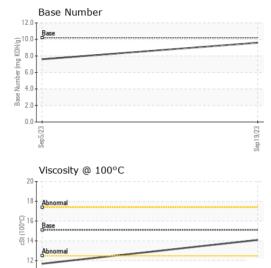
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

			Sep 2023	Sep 2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093405	GFL0080388	
Sample Date		Client Info		19 Sep 2023	05 Sep 2023	
Machine Age	hrs	Client Info		2039	2030	
Oil Age	hrs	Client Info		600	400	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	7	32	
Chromium	ppm	ASTM D5185m	>4	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>9	0	5	
Lead	ppm	ASTM D5185m	>30	6	△ 35	
Copper	ppm	ASTM D5185m	>35	3	12	
Tin	ppm	ASTM D5185m	>4	1	4	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	8	25	
Barium	ppm	ASTM D5185m	5	0	0	
Molybdenum	ppm	ASTM D5185m	50	59	72	
Manganese	ppm	ASTM D5185m	0	1	2	
Magnesium	ppm	ASTM D5185m	560	921	419	
Calcium	ppm	ASTM D5185m	1510	1179	1652	
Phosphorus	ppm	ASTM D5185m	780	1064	979	
Zinc	ppm	ASTM D5185m	870	1265	1151	
Sulfur	ppm	ASTM D5185m	2040	3871	3791	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	15	36	
Sodium	ppm	ASTM D5185m		6	24	
Potassium	ppm	ASTM D5185m	>20	3	11	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	5.8	8.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	18.3	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	14.8	
Base Number (BN)	mg KOH/g	ASTM D2896		9.6	7.6	
, ,						



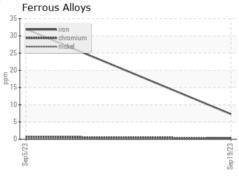
OIL ANALYSIS REPORT

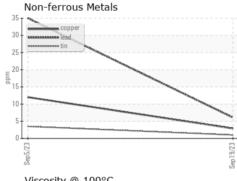


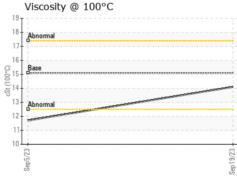
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
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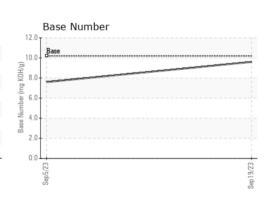
FLUID PROPE	EKITES	method	ilmit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	15.1	14.1	11.7	

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10658672

: GFL0093405 : 05957459

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Sep 2023 Diagnosed

: 22 Sep 2023 Diagnostician : Don Baldridge

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)

GFL Environmental - 892 - Pauls Valley Hauling 405 East Airport Industrial Road Pauls Valley, OK

US 73075 Contact: Tony Graham

tgraham2@wcamerica.com

T: F:

Report Id: GFL892 [WUSCAR] 05957459 (Generated: 09/30/2023 19:51:32) Rev: 1

Contact/Location: Tony Graham - GFL892