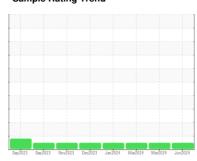


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 229037-603258

Natural Gas Engine

RDL-3647 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

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

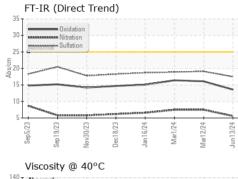
		Sep2023 S	ep2023 Nov2023 Dec20	23 Jan 2024 Mar 2024 Mar 2024	Jun2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117926	GFL0111963	GFL0111971
Sample Date		Client Info		13 Jun 2024	12 Mar 2024	01 Mar 2024
Machine Age	hrs	Client Info		2250	2186	2184
Oil Age	hrs	Client Info		0	600	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	NC	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS	;	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	16	27	25
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	4	3
Lead	ppm	ASTM D5185m	>30	2	6	7
Copper	ppm	ASTM D5185m	>35	<1	2	2
Tin	ppm	ASTM D5185m	>4	<1	<1	2
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	2	4	4
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	57	59	55
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	560	873	872	925
Calcium	ppm	ASTM D5185m	1510	1037	1116	1185
Phosphorus	ppm	ASTM D5185m	780	876	1005	1009
Zinc	ppm	ASTM D5185m	870	1163	1188	1258
Sulfur	ppm	ASTM D5185m	2040	3102	3592	3014
CONTAMINANT	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	11	15	15
Sodium	ppm	ASTM D5185m		2	7	6
Potassium	ppm	ASTM D5185m	>20	2	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.6	7.5	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	19.1	18.9
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	16.1	16.4

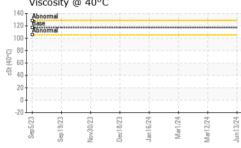
Base Number (BN) mg KOH/g ASTM D2896 10.2

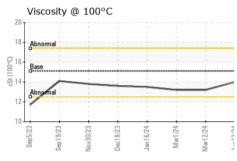
9.0

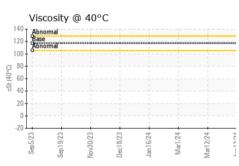


OIL ANALYSIS REPORT





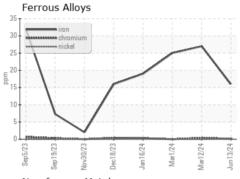


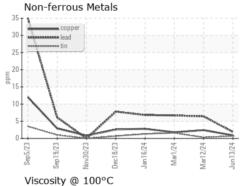


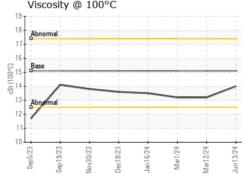
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

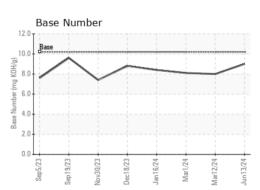
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.0	13.2	13.2

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0117926 Lab Number : 06209856 Unique Number : 11082720

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 14 Jun 2024 : 17 Jun 2024 Diagnosed

: 17 Jun 2024 - Angela Borella

1910 S CHICKASAW STREET Pauls Valley, OK US 73075

GFL Environmental - 892 - Pauls Valley Hauling

Contact: Tony Graham tgraham2@wcamerica.com

Test Package : FLEET (Additional Tests: KV40) 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)

Report Id: GFL892 [WUSCAR] 06209856 (Generated: 06/17/2024 09:27:25) Rev: 1

Contact/Location: Tony Graham - GFL892

T:

F: