

PROBLEM SUMMARY

Sample Rating Trend

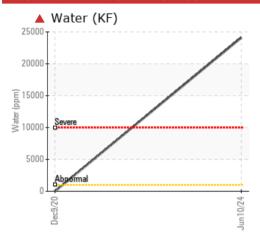
WATER

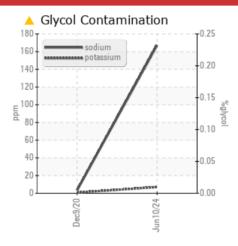


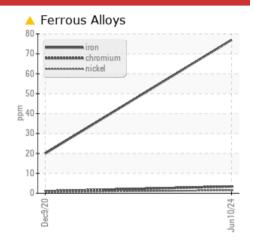


Machine Id
700990
Component
Natural Gas Engine
Fluid
IRVING 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	NORMAL				
Iron	ppm	ASTM D5185m	>50	<u> </u>	20				
Sodium	ppm	ASTM D5185m	>101	167	3				
Water	%	ASTM D6304	>0.1	2.41					
ppm Water	ppm	ASTM D6304	>1000	24100					
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG				

Customer Id: GFL007 Sample No.: GFL0123441 Lab Number: 06215584 Test Package: FLEET



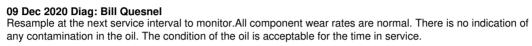
To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Glycol Access			?	We advise that you check for the source of the coolant leak.		

HISTORICAL DIAGNOSIS





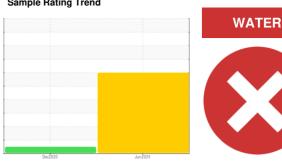
Report Id: GFL007 [WUSCAR] 06215584 (Generated: 06/24/2024 17:29:22) Rev: 1

Contact/Location: DONALD CRAVEN - GFL007



OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 700990 **Natural Gas Engine** IRVING 15W40 (--- GA

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

Sodium and/or potassium levels are high. There is a high concentration of water present in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

L)			Dec2020	Jun2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123441	GFL0011110	
Sample Date		Client Info		10 Jun 2024	09 Dec 2020	
Machine Age	hrs	Client Info		0	8673	
Oil Age	hrs	Client Info		250	1200	
Oil Changed		Client Info		Changed	Changed	
Sample Status				SEVERE	NORMAL	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<u> </u>	20	
Chromium	ppm	ASTM D5185m	>4	3	1	
Nickel	ppm	ASTM D5185m	>2	2	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	<1	
Aluminum	ppm	ASTM D5185m	>9	4	2	
Lead	ppm	ASTM D5185m	>30	16	5	
Copper	ppm	ASTM D5185m	>35	6	6	
Tin	ppm	ASTM D5185m	>4	3	<1	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		<1	0	
Beryllium	ppm	ASTM D5185m			0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		64	38	
Barium	ppm	ASTM D5185m		<1	0	
Molybdenum	ppm	ASTM D5185m		30	52	
Manganese	ppm	ASTM D5185m		4	1	
Magnesium	ppm	ASTM D5185m		224	32	
Calcium	ppm	ASTM D5185m		1982	1882	
Phosphorus	ppm	ASTM D5185m		932	737	
Zinc	ppm	ASTM D5185m		1166	944	
Sulfur	ppm	ASTM D5185m		3154	2169	
Lithium	ppm	ASTM D5185m			<1	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	21	8	
Sodium	ppm	ASTM D5185m	>101	<u> </u>	3	
Potassium	ppm	ASTM D5185m	>20	7	<1	
Water	%	ASTM D6304	>0.1	2.41		
ppm Water	ppm	ASTM D6304	>1000	4 24100		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	
Nitration	Abs/cm	*ASTM D7624	>20	16.2	10.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	12.5	23.1	
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	13.9	
Base Number (BN)	mg KOH/g	ASTM D2896		21.6		
= 200a.moor (DIV)	9					



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06215584

: GFL0123441 Unique Number : 11088448

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested** Diagnosed

: 20 Jun 2024 : 24 Jun 2024 Test Package : FLEET (Additional Tests: Glycol, KF)

: 24 Jun 2024 - Jonathan Hester

Bolivia, NC US 28422 Contact: DONALD CRAVEN dcraven@gflenv.com

2809 Galloway Road

 st - 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)

F: (910)253-4179 Contact/Location: DONALD CRAVEN - GFL007

T: