

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

X



Component

Diesel Engine

MOTORCRAFT SUPER PREMIUM SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

🔺 Wear

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

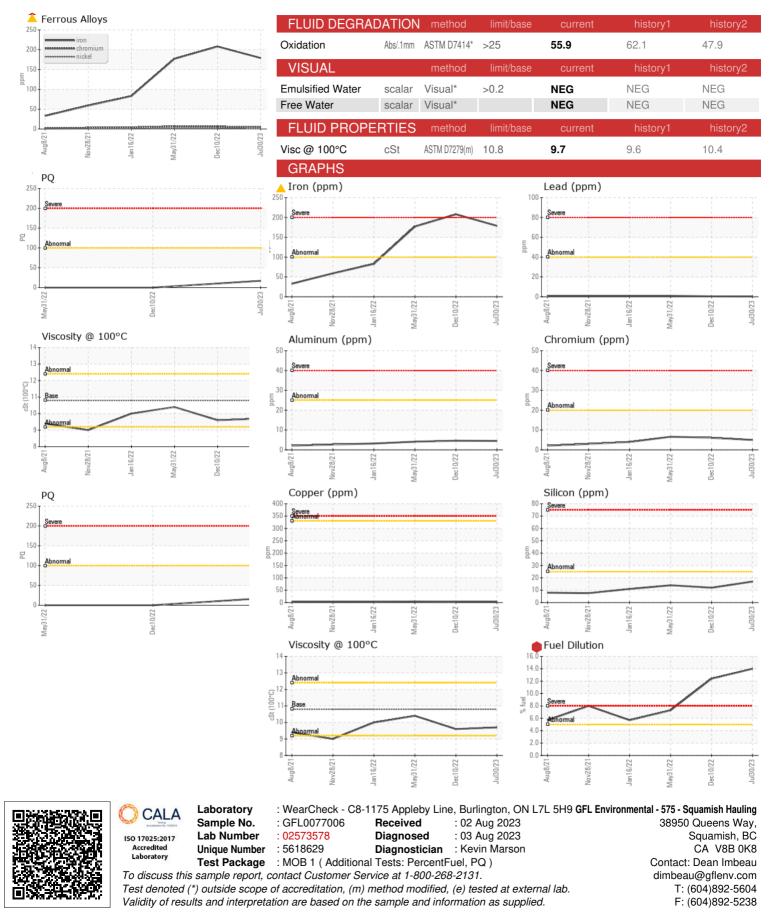
Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

/30 (GAL)		Aug2021	Nov2021 Jan202	2 May2022 Dec2022	Jui2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0077006	GFL0054665	GFL0024422
Sample Date		Client Info		30 Jul 2023	10 Dec 2022	31 May 2022
Machine Age	hrs	Client Info		5118	0	0
Oil Age	hrs	Client Info		618	0	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	ABNORMAL
CONTAMINAT	TION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*		17	0	0
ron	ppm	ASTM D5185(m)	>100	179	<u> </u>	1 77
Chromium	ppm	ASTM D5185(m)	>20	5	6	7
Nickel	ppm	ASTM D5185(m)		<1	1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	4	5	4
Lead	ppm	ASTM D5185(m)	>40	<1	<1	1
Copper	ppm	ASTM D5185(m)	>330	2	3	4
Γin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	0
/anadium	ppm	ASTM D5185(m)		<1	<1	<1
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		15	2	7
Barium	ppm	ASTM D5185(m)		0	0	0
Volybdenum	ppm	ASTM D5185(m)		38	46	27
Manganese	ppm	ASTM D5185(m)		2	3	4
Vagnesium	ppm	ASTM D5185(m)		583	715	416
Calcium	ppm	ASTM D5185(m)		1177	935	1522
Phosphorus	ppm	ASTM D5185(m)		891	866	885
Zinc	ppm	ASTM D5185(m)		1021	967	1023
Sulfur	ppm	ASTM D5185(m)		2075	1952	2284
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	17	12	14
Sodium	ppm	ASTM D5185(m)		7	3	9
Potassium	ppm	ASTM D5185(m)	>20	3	<1	3
Fuel	%	ASTM D7593*	>5	• 14	12.4	<mark>▲</mark> 7.3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.9	1	0.8
Nitration	Abs/cm	ASTM D7624*	>20	21.0	23.3	19.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	40.1	42.3	39.7



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