

OIL ANALYSIS REPORT









Machine Id 714009 Diesel Engine SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

Nickel ppm levels are abnormal. Exhaust valve wear is indicated. Component wear metal level(s) high for break in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

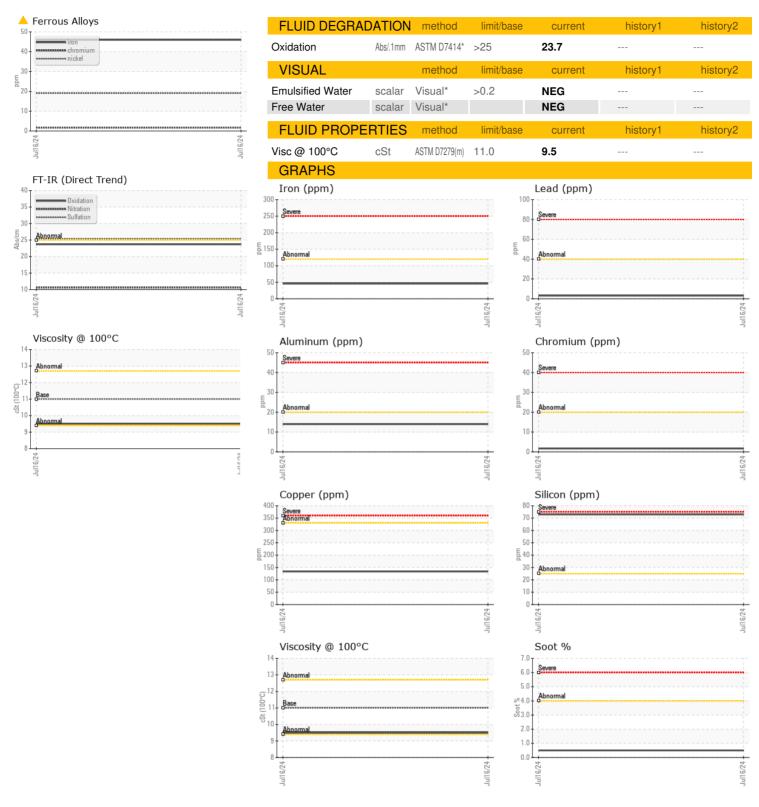
Fluid Condition

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

				Jul2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0127610		
Sample Date		Client Info		16 Jul 2024		
Machine Age	kms	Client Info		10762		
Oil Age	kms	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron Chromium	ppm	ASTM D5185(m)	>120	46 2		
	ppm	ASTM D5185(m)	>20			
Nickel	ppm	ASTM D5185(m)	>5	<u>19</u>		
Titanium Silver	ppm	ASTM D5185(m)	>2	<1		
	ppm	ASTM D5185(m)	>2	<1 14		
Aluminum	ppm	ASTM D5185(m)	>20			
Lead	ppm	ASTM D5185(m)	>40	3		
Copper	ppm	ASTM D5185(m)	>330	134		
Tin • • • • • • • • • • • • • • • • • • •	ppm	ASTM D5185(m)	>15	2		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		189		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		126		
Manganese	ppm	ASTM D5185(m)		5		
Magnesium	ppm	ASTM D5185(m)		654		
Calcium	ppm	ASTM D5185(m)		1408		
Phosphorus	ppm	ASTM D5185(m)		661		
Zinc	ppm	ASTM D5185(m)		763		
Sulfur	ppm	ASTM D5185(m)		1857		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	73		
Cadium		ACTM DE10E()	>228	6		
Socium	ppm	ASTM D5185(m)	/220	•		
	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>20	36		
		, ,				
Potassium INFRA-RED		ASTM D5185(m)	>20	36		history2
Sodium Potassium INFRA-RED Soot % Nitration	ppm %	ASTM D5185(m) method	>20 limit/base	36 current	history1	history2



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02648381 Unique Number : 5813933

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0127610

Test Package : MOB 1

Received : 17 Jul 2024 **Tested** : 17 Jul 2024

Diagnosed

: 18 Jul 2024 - Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131.

GFL Environmental - 221 - Windsor

905 Tecumseh Road W Windsor, ON **CA N8W 4J5**

Contact: Pamela-Jean Butler pamelajean.butler@gflenv.com T: (519)948-8126

Validity of results and interpretation are based on the sample and information as supplied.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.