

OIL ANALYSIS REPORT

Sample Rating Trend

SOOT \mathbf{X}

Machine Id

NO UNIT CU0019433

Diesel Engine Fluid SHELL ROTELLA T4 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. The oil change at the time of sampling has been noted. 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. We recommend an early resample to monitor this condition. Please note that the oil was too thick to perform some of the normal laboratory tests.

Wear

All component wear rates are normal.

Contamination

There is an abnormal amount of solids and carbon present in the oil.

Fluid Condition

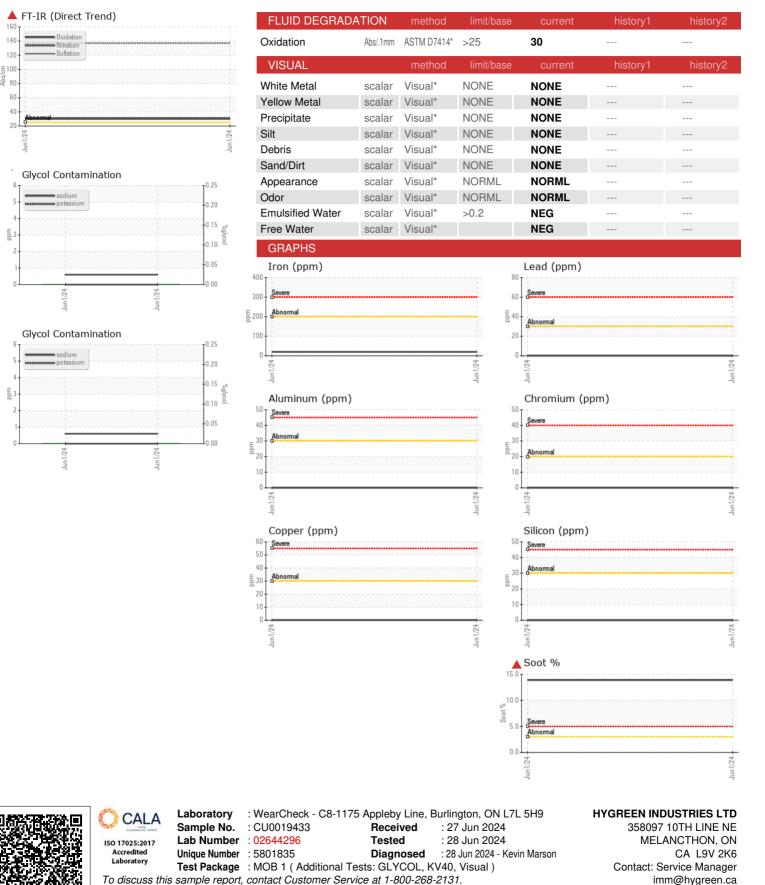
The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0019433		
Sample Date		Client Info		01 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		410		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
		in all a d	line it //s s s s		latata mut	biotom (O
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>200	20		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>2	<1		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>30	0		
Lead	ppm	ASTM D5185(m)	>30	0		
Copper	ppm	ASTM D5185(m)	>30	<1		
Tin	ppm	ASTM D5185(m)	>15	0		
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)		40		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		<1		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		70		
Calcium	ppm	ASTM D5185(m)		1720		
Phosphorus	ppm	ASTM D5185(m)		760		
Zinc	ppm	ASTM D5185(m)		910		
Sulfur	ppm	ASTM D5185(m)		2370		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	0		
Sodium	ppm	ASTM D5185(m)		0		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1 3.9		
Nitration	Abs/cm	ASTM D7624*	>20	31		
Sulfation	Abs/.1mm	ASTM D7415*	>30	137		



Abs

OIL ANALYSIS REPORT



To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Report Id: HYGMEL [WCAMIS] 02644296 (Generated: 07/13/2024 13:16:03) Rev: 1

Contact/Location: Service Manager - HYGMEL

E:

T: (519)270-2871