

OIL ANALYSIS REPORT

Sample Rating Trend





52946 Component **Diesel Engine** NOT GIVEN (--- GAL)

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. 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

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

				Sep2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0828342		
Sample Date		Client Info		30 Sep 2023		
Machine Age	mls	Client Info		76840		
Oil Age	mls	Client Info		37375		
Oil Changed	11113	Client Info		Changed		
Sample Status		Olletti IIIIO		NORMAL		
CONTAMINATION	VI.	method	limit/base	current	history1	history2
Glycol	V	WC Method	mmbasc	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	39		
Chromium	ppm	ASTM D5185(m)	>20	6		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>20	143		
Lead	ppm	ASTM D5185(m)	>40	2		
Copper	ppm	ASTM D5185(m)	>330	93		
Tin	ppm	ASTM D5185(m)	>15	1		
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)		4		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		63		
Manganese	ppm	ASTM D5185(m)		1		
Magnesium	ppm	ASTM D5185(m)		979		
Calcium	ppm	ASTM D5185(m)		1258		
Phosphorus	ppm	ASTM D5185(m)		938		
Zinc	ppm	ASTM D5185(m)		1212		
Sulfur	ppm	ASTM D5185(m)		1774		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7		
Sodium	ppm	ASTM D5185(m)		4		
Potassium	ppm	ASTM D5185(m)	>20	279		
Fuel	%	ASTM D7593*	>5	0.4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.5		
Nitration	Abs/cm	ASTM D7624*	>20	9.3		
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.3		
						biotom/2
FLUID DEGRADA Oxidation		method	limit/base	current	history1	history2
	Abs/.1mm	ASTM D7414*	>25	20.3		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: 02586343

: 5655409

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 MANITOULIN TRANSPORT (GARAGE) : WC0828342

Received : 03 Oct 2023 Diagnosed : 04 Oct 2023

Diagnostician : Kevin Marson

Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel) 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.

CA L4W 1C4 Contact: Patrick Morin pmorin@manitoulintransport.com T:

Contact/Location: Patrick Morin - MANMIS

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

F: (905)564-6361

1335 SHAWSON DRIVE

MISSISSAUGA, ON