

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **56169** Component **Diesel Engine** Fluid **NOT GIVEN (--- LTR)**

DIAGNOSIS

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

Metal levels are typical for a new component breaking in.

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.

				Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0837239		
Sample Date		Client Info		07 Aug 2023		
Machine Age	mls	Client Info		38351		
Oil Age	mls	Client Info		37273		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	98		
Chromium	ppm	ASTM D5185(m)	>20	15		
Nickel	ppm	ASTM D5185(m)	>4	1		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>20	89		
Lead	ppm	ASTM D5185(m)	>40	7		
Copper	ppm	ASTM D5185(m)	>330	267		
Tin	ppm	ASTM D5185(m)	>15	5		
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)		24		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		42		
Manganese	ppm	ASTM D5185(m)		5		
Magnesium	ppm	ASTM D5185(m)		557		
Calcium	ppm	ASTM D5185(m)		1683		
Phosphorus	ppm	ASTM D5185(m)		732		
Zinc	ppm	ASTM D5185(m)		858		
Sulfur	ppm	ASTM D5185(m)		1503		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	10		
Sodium	ppm	ASTM D5185(m)		6		
Potassium	ppm	ASTM D5185(m)	>20	183		
Fuel	%	ASTM D7593*	>5	0.3		
INFRA-RED		method	limit/base	current	history1	history2
	0/	ASTM D7844*				
Soot %	%		>3	0.5		
Nitration	Abs/cm	ASTM D7624*	>20	10.9		
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.4		
FLUID DEGRADA Oxidation	ATION	method ASTM D7414*	limit/base	current 25.5	history1	history2



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WC0837239

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

: 02577420 : 5630480

Received Diagnosed

: 22 Aug 2023 : 23 Aug 2023 Diagnostician : Kevin Marson 1335 SHAWSON DRIVE MISSISSAUGA, ON CA L4W 1C4

Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Contact: Travis Spence tspence@manitoulintransport.com T:

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.

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