

OIL ANALYSIS REPORT

I 97623013]
Hatz 11561731

Front Diesel Engine

SAE 5W40 (2 LTR)

Sample Rating Trend FUEL Juni2024

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. (Customer Sample Comment: Oil Level High)

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The water content is negligible. Tests confirm the presence of fuel in the oil.

▲ Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

				Jun 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0866078		
Sample Date		Client Info		13 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		71		
Oil Changed		Client Info		Not Changd		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	19		
Chromium	ppm	ASTM D5185(m)	>20	1		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	9		
Lead	ppm	ASTM D5185(m)	>40	0		
Copper	ppm	ASTM D5185(m)	>330	2		
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)		207		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		23		
Manganese	ppm	ASTM D5185(m)		2		
Magnesium	ppm	ASTM D5185(m)		7		
Calcium	ppm	ASTM D5185(m)		1932		
Phosphorus	ppm	ASTM D5185(m)		518		
Zinc	ppm	ASTM D5185(m)		575		
Sulfur	ppm	ASTM D5185(m)		2430		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	▲ 37		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	1		
Fuel	%	ASTM D7593*	>5	55.2		
Water	%	ASTM D6304*	>0.2	0.068		
ppm Water	ppm	ASTM D6304*	>2000	685		
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	8.1		
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.2		
FLUID DEGRAD	ATION_	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.9		
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CALA ISO 17025:2017 Accredited Laboratory

Sample No.

Lab Number : 02642284 Unique Number : 5799823

: WC0866078

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

Received : 17 Jun 2024 **Tested** : 18 Jun 2024 Diagnosed : 19 Jun 2024 - Kevin Marson

Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KF, 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.

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