

# **OIL ANALYSIS REPORT**

# Sample Rating Trend

#### Machine Id

# 555 UNIVERSITY AVE TORONTO ANNEX UNIT 1 CAT 66B341

**Front Diesel Engine** 

ESSO XD-3 EXTRA 15W40 (250 LTR)

## DIAGNOSIS

#### Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid. this testkit includes BN to determine the suitability of the oil for continued use.

### Wear

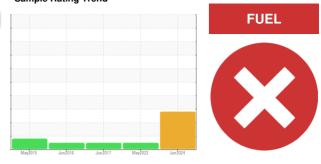
Component wear rates appear to be normal (unconfirmed).

### Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

### Fluid Condition

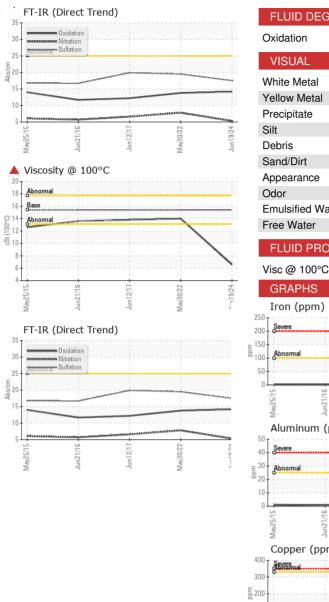
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

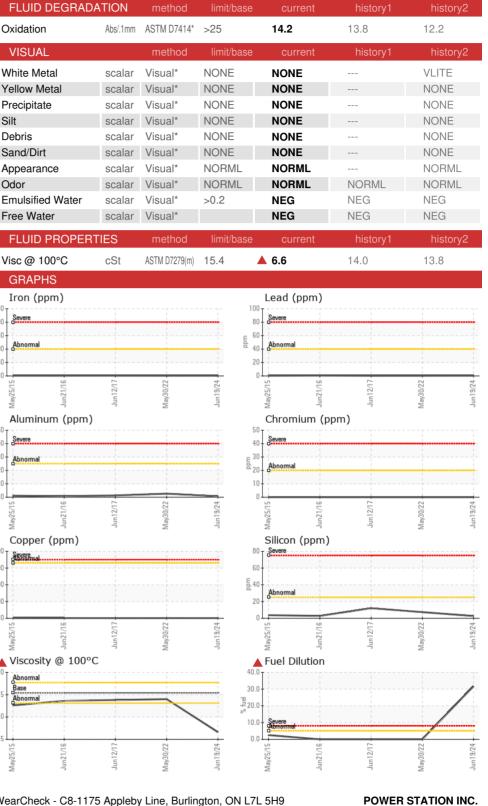


SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PN0006207	PN0003516	PN990785
Sample Date		Client Info		19 Jun 2024	30 May 2022	12 Jun 2017
Machine Age	hrs	Client Info		0	683	566
Oil Age	hrs	Client Info		0	33	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINATION	٨	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	1	1	1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	3	1
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	0
Antimony	ppm	ASTM D5185(m)		0	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		11	76	6
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		42	83	10
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		562	59	181
Calcium	ppm	ASTM D5185(m)	3780	845	2088	2058
Phosphorus	ppm	ASTM D5185(m)	1370	705	1067	946
Zinc	ppm	ASTM D5185(m)	1500	815	1155	1110
Sulfur	ppm	ASTM D5185(m)	3800	1919	3239	2979
Lithium	ppm	ASTM D5185(m)		<1	0	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	7	12
Sodium	ppm	ASTM D5185(m)	>192	1	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	1	1
Fuel	%	ASTM D7593*	>5	<b>4</b> 31.7	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*		5.3	7.8	6.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.5	19.5	19.9



# **OIL ANALYSIS REPORT**





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : PN0006207 Received : 25 Jun 2024 Lab Number Tested : 26 Jun 2024 : 02643936 ISO 17025:2017 Accredited Unique Number : 5801475 Diagnosed : 26 Jun 2024 - Kevin Marson Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, Visual) 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.

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(0.15 100-01) 15

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1050 JAYSON COURT MISSISSAUGA, ON CA L4W 2V5 Contact: Ryan Udall rudall@pwrstn.com T: (905)565-1621 F: (905)629-1499

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Contact/Location: Ryan Udall - POWMIS