

# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id **093106** Component

**Diesel Engine** 

**DIESEL ENGINE OIL SAE 10W30 (10 LTR)** 

### **DIAGNOSIS**

#### Recommendation

We advise that you check for visible metal particles in the oil. 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.

#### Wear

Light concentration of visible metal present.

#### Contamination

There is no indication of any contamination in the

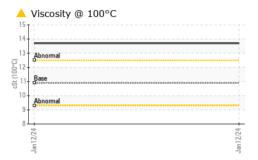
#### ▲ Fluid Condition

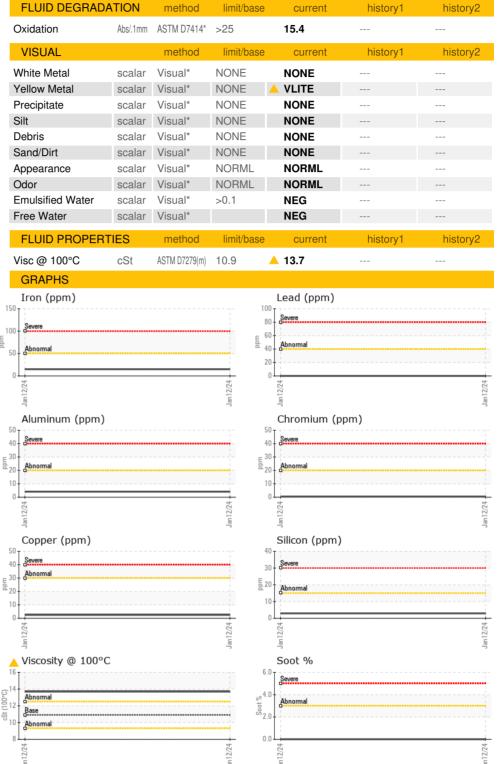
Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

				Jan 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC105094		
Sample Date		Client Info		12 Jan 2024		
Machine Age	hrs	Client Info		3093		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
•			11 11 11		111	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	15		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)	>20	4		
Lead	ppm	ASTM D5185(m)	>40	<1		
Copper	ppm	ASTM D5185(m)	>30	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)	250	1		
Barium	ppm	ASTM D5185(m)	10	0		
Molybdenum	ppm	ASTM D5185(m)	100	59		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	450	975		
Calcium	ppm	ASTM D5185(m)	3000	1079		
Phosphorus	ppm	ASTM D5185(m)	1150	1022		
Zinc	ppm	ASTM D5185(m)	1350	1194		
Sulfur	ppm	ASTM D5185(m)	4250	2691		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	3		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	6		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	8.0		
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.2		



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: WC105094 : 02608859

**Tested** Unique Number : 5709945 Diagnosed

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 16 Jan 2024 : 18 Jan 2024

: 18 Jan 2024 - Kevin Marson

C.G. EQUIPMENT 7367 Wellington Rd. 30, Unit A

Guelph, ON CA NOM 2TO

Test Package : MOB 1 ( Additional Tests: BottomAnalysis, FILTERPATCH, Visual Contact: CG Equipment CG Guelph To discuss this sample report, contact Customer Service at 1-800-268-2131.

cory@cgequipment.com T: (519)826-0550

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.

F: (519)837-2055