

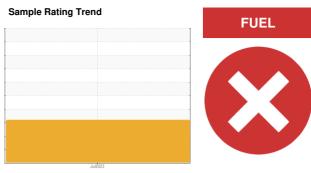
## **OIL ANALYSIS REPORT**

# SHARP BUS LINES Machine Id IC 1214

Component

**Diesel Engine** 

**DIESEL ENGINE OIL SAE 15W40 (--- GAL)** 



### DIAGNOSIS

#### Recommendation

We advise that you check the fuel injection system. The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

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

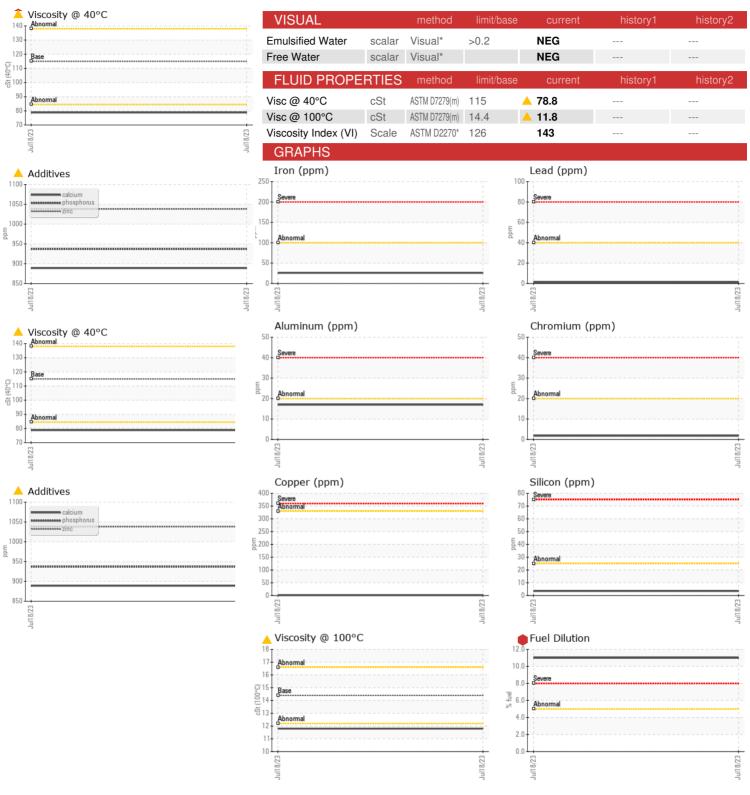
#### ▲ Fluid Condition

Calcium ppm levels are abnormally low. Visc @ 100°C is abnormally low. Visc @ 40°C is abnormally low. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

				Jul2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0081459		
Sample Date		Client Info		18 Jul 2023		
Machine Age	kms	Client Info		237587		
Oil Age	kms	Client Info		7015		
Oil Changed	TUTIO	Client Info		Not Changd		
Sample Status				SEVERE		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	26		
Chromium	ppm	ASTM D5185(m)		2		
Nickel	ppm	ASTM D5185(m)	>4	- <1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	0		
Aluminum	ppm	ASTM D5185(m)		17		
Lead	ppm	ASTM D5185(m)	>40	1		
Copper	ppm	ASTM D5185(m)	>330	1		
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	53		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)	450	859		
Calcium	ppm	ASTM D5185(m)	3000	<u> </u>		
Phosphorus	ppm	ASTM D5185(m)	1150	937		
Zinc	ppm	ASTM D5185(m)	1350	1038		
Sulfur	ppm	ASTM D5185(m)	4250	2294		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4		
<u> </u>						
Sodium	ppm	ASTM D5185(m)	>158	2		
Sodium Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>158 >20	2 0		
		. ,				
Potassium	ppm	ASTM D5185(m)	>20	0		
Potassium Fuel	ppm	ASTM D5185(m) ASTM D7593*	>20 >5	0 • 11		
Potassium Fuel INFRA-RED	ppm %	ASTM D5185(m) ASTM D7593* method	>20 >5 limit/base	0 11 current	history1	history2
Potassium Fuel INFRA-RED Soot %	ppm %	ASTM D5185(m) ASTM D7593* method ASTM D7844*	>20 >5 limit/base >3	0 11 current 1.1	history1	history2
Potassium Fuel INFRA-RED Soot % Nitration	ppm % % Abs/cm Abs/.1mm	ASTM D5185(m) ASTM D7593*  method  ASTM D7844* ASTM D7624* ASTM D7415*	>20 >5 limit/base >3 >20	0 11 current 1.1 10.9	history1	history2



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number** 

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : PC0081459 : 02577643

Received : 5630703

: 23 Aug 2023 Diagnosed

: 24 Aug 2023 Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI)

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.

**ICSB - Brantford** 567 Oak Park Rd. Brantford, ON CA N3T 5L8 Contact: Doug Hall Djhall@sharpbus.com T: (519)751-3434