**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL ABNORMAL ABNORMAL** 

[808725]

**SPARTAN A152** 

Diesel Engine

RECOMMENDATION  We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0812443	WC0711604	,
	Sample Date		Client Info		25 Jan 2024	20 Oct 2022	06 Jul 202
	Machine Age	kms	Client Info		93272	159546	71993
	Oil Age	kms	Client Info		0	0	0
	Filter Age	kms	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>75	67	54	95
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)		2	1	2
	Nickel	ppm	ASTM D5185(m)		0	0	<1
	Titanium	ppm	ASTM D5185(m)		0	<1	<1
	Silver	ppm	ASTM D5185(m)		0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>15	3	2	5
	Lead	ppm	ASTM D5185(m)	>25	43	16	30
	Copper	ppm	ASTM D5185(m)	>100	11	6	13
	Tin	ppm	ASTM D5185(m)	>4	1	1	2
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION  Test for glycol is positive. There is a moderate amount of fuel present in the oil. There is a light concentration of glycol present in the oil.  Tests confirm the presence of fuel in the oil.	Silicon	ppm	ASTM D5185(m)	>25	5	5	13
	Potassium	ppm	ASTM D5185(m)	>20	<b>△</b> 32	3	16
	Fuel	%	ASTM D7593*	>3.0	<b>5.4</b>	<1.0	0.6
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	ASTM D7922*		<u> </u>	NEG	0.0
	Soot %	%	ASTM D7844*	>6	3.6	3.9	2.8
	Nitration	Abs/cm	ASTM D7624*	>20	12.4	13.4	11.6
	Sulfation	Abs/.1mm	ASTM D7415*	>30	29.6	30.0	28.0
	Silt	scalar	Visual*	NONE	VLITE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)		10	6	6
FLUID CONDITION	Oddiaiii				-	0	9
	Boron	ppm	ASTM D5185(m)		1	2	9
Fuel is present in the oil and is lowering the viscosity. The oil is no		ppm ppm	ASTM D5185(m)		1 <1	0	<1
	Boron Barium Molybdenum		ASTM D5185(m) ASTM D5185(m)			1	<1 93
·	Boron Barium	ppm	ASTM D5185(m)		<1	0	<1

Magnesium

Phosphorus

Calcium

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

ppm

ppm

ppm

ppm

ppm

ASTM D5185(m)

ASTM D5185(m)

ASTM D5185(m)

ASTM D5185(m)

ASTM D5185(m)

ASTM D7279(m)

850

1250

1084

1228

2536

23.5

13.3

879

1150

927

1175

2291

19.8

11.9

729

2438

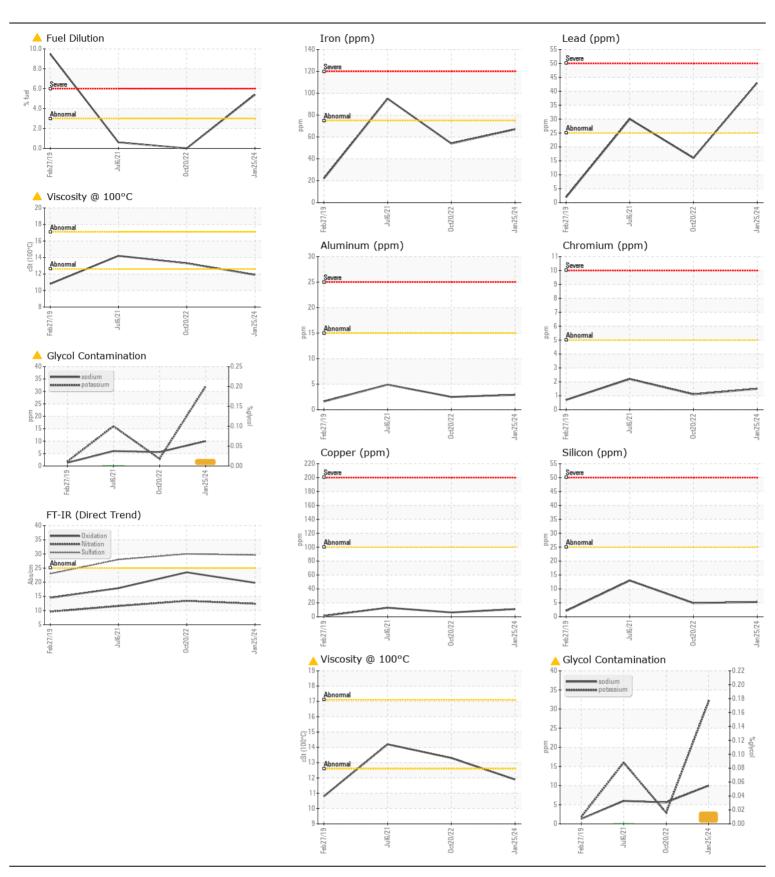
1689

1810

4035

17.9

14.2





CALA ISO 17025:2017 Accredited Laboratory

Lab Number

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0812443 : 02640650

Received Tested Unique Number : 5789812

: 10 Jun 2024 : 11 Jun 2024 Diagnosed

: 11 Jun 2024 - Wes Davis Test Package : MOB 1 ( Additional Tests: FuelDilution, Glycol, PercentFuel, Visual )

**CITY OF MISSISSAUGA FIRE DEPT** 7535 NINTH LINE MISSISSAUGA, ON CA L5N 7C3 Contact: Nick Specic

nicolas.specic@mississauga.ca

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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