

## WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION ABNORMAL

#### Machine Id **2006 P27** Component **Diesel Engine** Fluid **{not provided} (--- GAL)**

RECOMMENDATION

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. 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. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

#### **WEAR**

All component wear rates are normal.

# CONTAMINATION

There is an abnormal amount of solids and carbon present in the oil.

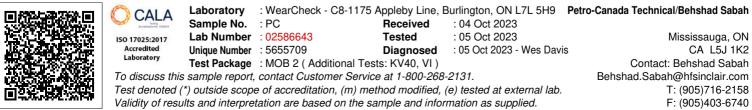
### **FLUID CONDITION**

The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC		
Sample Date		Client Info		03 Oct 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Filter Changed		Client Info		N/A		
Sample Status				SEVERE		
Iron	ppm	ASTM D5185(m)	>100	43		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>4	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	1		
Aluminum	ppm	ASTM D5185(m)	>20	4		
Lead	ppm	ASTM D5185(m)	>40	2		
Copper	ppm	ASTM D5185(m)	>330	2		
Tin	ppm	ASTM D5185(m)	>15	<1		
Vanadium	ppm	ASTM D5185(m)		0		
Silicon	ppm	ASTM D5185(m)	>25	12		
Potassium	ppm	ASTM D5185(m)	>20	3		
Fuel	ppm	WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
Soot %	%	ASTM D7844*	>3	<b>5</b> .8		
Nitration	Abs/cm	ASTM D7624*	>20	12.8		
Sulfation	Abs/.1mm	ASTM D7415*	>30	34.4		
Emulsified Water	scalar	Visual*	>0.2	NEG		
Sodium	ppm	ASTM D5185(m)		4		
Boron	ppm	ASTM D5185(m)		2		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		57		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)		928		
Calcium	ppm	ASTM D5185(m)		1025		
Phosphorus	ppm	ASTM D5185(m)		912		
Zinc	ppm	ASTM D5185(m)		1118		
Sulfur	ppm	ASTM D5185(m)		2260		
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.4		
Base Number (BN)	mg KOH/g	ASTM D2896*		8.57		
Visc @ 40°C	cSt	ASTM D7279(m)		🔺 152		
Visc @ 100°C	cSt	ASTM D7279(m)		<b>A</b> 19.5		
Viscosity Index (VI)	Scale	ASTM D2270*		147		

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