

## **OIL ANALYSIS REPORT**

Sample Rating Trend

**DEGRADATION** 

Machine Id **CN7452-L26** Component **Gasoline Engine** Fluid **SUPERTECH 5W20 (--- GAL)** 

#### DIAGNOSIS

#### Recommendation

The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates.

#### Wear

All component wear rates are normal.

### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

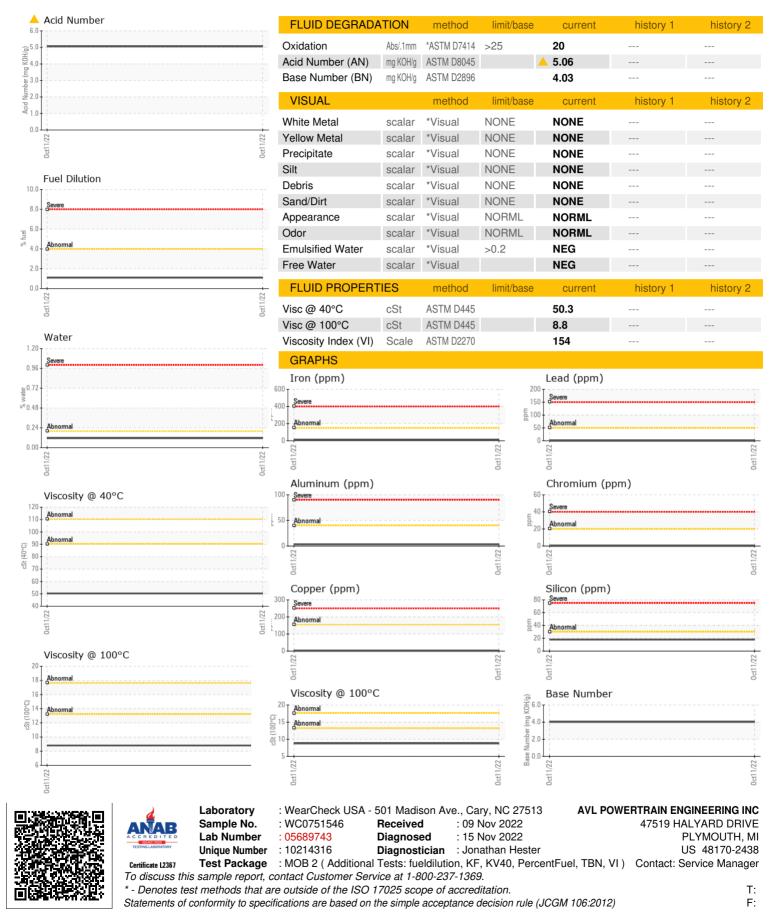
### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is at the top-end of the recommended limit.

SAMPLE INFORM	ATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0751546		
Sample Date		Client Info		11 Oct 2022		
Machine Age	kms	Client Info		212220		
Oil Age	kms	Client Info		11642		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION		method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>150	7		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>40	3		
Lead	ppm	ASTM D5185m	>50	<1		
Copper	ppm	ASTM D5185m	>155	1		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		42		
	ppm ppm	ASTM D5185m ASTM D5185m		42 0		
Barium						
Barium Molybdenum	ppm	ASTM D5185m		0		
Barium Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 72 <1 553		
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 72 <1 553 1012		
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 72 <1 553 1012 650		  
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 72 <1 553 1012 650 819		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 72 <1 553 1012 650		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 72 <1 553 1012 650 819	    	  
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >30	0 72 <1 553 1012 650 819 3163		
Barium Molybdenum Manganese Magnesium Calcium Chosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>30	0 72 <1 553 1012 650 819 3163 current		
Barium Molybdenum Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Silicon Sodium Potassium Molece Marcel Magnesium Molece Marcel Magnesium Molece Marcel Mar	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>30	0 72 <1 553 1012 650 819 3163 <u>current</u> 18 2 0		     history 2
Barium Molybdenum Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Andrese Marco Marc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>30 >400	0 72 <1 553 1012 650 819 3163 current 18 2 0 0 1.1	     history 1	     history 2
Barium Anolybdenum Anolybdenum Anolybdenum Anolybdenum Anolybdenum Anolybdenum Calcium Calcium Contamination Solitar Solitar Solitan Potassium Fuel Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D3524	>30 >400 >20 >4.0 >0.2	0 72 <1 553 1012 650 819 3163 <u>current</u> 18 2 0 0 1.1 0.114	      history 1	    history 2
Barium Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Water	ppm	ASTM D5185m ASTM D5185m	>30 >400 >20 >4.0	0 72 <1 553 1012 650 819 3163 current 18 2 0 0 1.1	     history 1	    history 2
Barium Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D3524	>30 >400 >20 >4.0 >0.2	0 72 <1 553 1012 650 819 3163 <u>current</u> 18 2 0 0 1.1 0.114	     history 1   	    history 2
Barium Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Water ppm Water INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5304	>30 >400 >20 >4.0 >0.2 >2000	0 72 <1 553 1012 650 819 3163 current 18 2 0 1.1 0.114 1140	history 1	     history 2   
BariumMolybdenumManganeseMagnesiumCalciumPhosphorusZincSulfurCONTAMINANTSSiliconSodiumPotassiumFuelWaterppm WaterINFRA-REDSoot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm % % % ppm	ASTM D5185m ASTM D3524 ASTM D6304 ASTM D6304	>30 >400 >20 >4.0 >0.2 >2000 limit/base	0 72 <1 553 1012 650 819 3163 current 18 2 0 1.1 0.114 1140 current	     history 1        -	<ul> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history 2</li> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history 2</li> </ul>
BariumMolybdenumManganeseMagnesiumCalciumPhosphorusZincSulfurCONTAMINANTSSiliconSodiumPotassiumFuelWaterppm WaterINFRA-REDSoot %NitrationI	ppm	ASTM D5185m ASTM D5324 ASTM D6304 ASTM D6304 ASTM D6304	>30 >400 >20 >4.0 >0.2 >2000 limit/base	0 72 <1 553 1012 650 819 3163 current 18 2 0 1.1 0.114 1140 current 0.1	history 1	     history 2      history 2



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Contact/Location: Service Manager - AVLPLYWC