

OIL ANALYSIS REPORT



Machine Id **CN7452-L24** Component **Gasoline Engine** Fluid **SUPERTECH 5W20 (--- GAL)**

DIAGNOSIS

A Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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 note that this is a corrected copy for laboratory data updates.

🔺 Wear

All component wear rates are normal.

Contamination

Fuel content negligible. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. The water content is negligible.

Fluid Condition

The AN level is above the recommended limit. The oil viscosity is higher than normal. The BN level is low.

SAMPLE INFORM	ATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0751540		
Sample Date		Client Info		27 Sep 2022		
Machine Age	kms	Client Info		200578		
Oil Age	kms	Client Info		49387		
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	23		
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	<mark>/</mark> 9		
Lead	ppm	ASTM D5185m	>50	3		
Copper	ppm	ASTM D5185m	>155	4		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		32		
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m		32 0		
				-		
Barium	ppm	ASTM D5185m		0		
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0 79		
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 79 1		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 79 1 604 1120 670	 	
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 79 1 604 1120		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 79 1 604 1120 670	 	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 79 1 604 1120 670 911	 	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >30	0 79 1 604 1120 670 911 3424	 	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>30	0 79 1 604 1120 670 911 3424 current	 	 history 2
Barium Molybdenum Manganese Magnesium Calcium Chosphorus Zinc Zinc Sulfur CONTAMINANTS Silicon	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>30	0 79 1 604 1120 670 911 3424 current ▲ 53	 history 1	 history 2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Solium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>30 >400	0 79 1 604 1120 670 911 3424 current 53 7	 history 1	 history 2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>30 >400 >20	0 79 1 604 1120 670 911 3424 <i>current</i> ▲ 53 7 0	 history 1	 history 2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm %	ASTM D5185m ASTM D5185m	>30 >400 >20 >4.0	0 79 1 604 1120 670 911 3424	 history 1 	 history 2
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 79 1 604 1120 670 911 3424 ▲ 53 7 0 1.2 0.182	 history 1 	 history 2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D51854 ASTM D51854 ASTM D5304	>30 >400 >20 >4.0 >0.2 >2000	0 79 1 604 1120 670 911 3424 current ▲ 53 7 0 1.2 0.182 1820	 history 1 	 history 2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Water ppm Water INFRA-RED	ppm	ASTM D5185m ASTM D5244 ASTM D6304 ASTM D6304	>30 >400 >20 >4.0 >0.2 >2000 limit/base	0 79 1 604 1120 670 911 3424	 history 1 history 1	 history 2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Vater ppm Water INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm % % ppm	ASTM D5185m ASTM D51824 ASTM D5324 ASTM D6304 ASTM D6304 ASTM D6304	>30 >400 >20 >4.0 >0.2 >2000 limit/base >20	0 79 1 604 1120 670 911 3424	 history 1 -	 history 2 history 2



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