

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id G50 Component Natural Gas Engine Fluid 15W40 BULK CNG (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

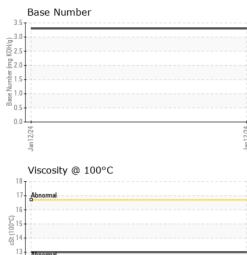
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0841407		
Sample Date		Client Info		12 Jan 2024		
Machine Age	hrs	Client Info		4785		
Oil Age	hrs	Client Info		452		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	3		
Chromium	ppm	ASTM D5185m	>4	0		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>9	4		
Lead	ppm	ASTM D5185m	>30	<1		
Copper	ppm	ASTM D5185m	>35	<1		
Tin	ppm	ASTM D5185m	>4	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		33		
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m		33 0		
Barium	ppm	ASTM D5185m		0		
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0 109		
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 109 <1		
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 109 <1 98	 	
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 109 <1 98 1937		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 109 <1 98 1937 785	 	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 109 <1 98 1937 785 942	 	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm 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 >+100	0 109 <1 98 1937 785 942 3244		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 109 <1 98 1937 785 942 3244 current		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m		0 109 <1 98 1937 785 942 3244 current 7		
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>+100	0 109 <1 98 1937 785 942 3244 <i>current</i> 7 3	 history1	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>+100 >20	0 109 <1 98 1937 785 942 3244 current 7 3 6	 history1 	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>+100 >20 limit/base	0 109 <1 98 1937 785 942 3244 current 7 3 6 current	 history1 history1	 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm	ASTM D5185m ASTM D5185m	>+100 >20 limit/base	0 109 <1 98 1937 785 942 3244 current 7 3 6 current 0	 history1 history1 history1	 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>+100 >20 limit/base >20	0 109 <1 98 1937 785 942 3244 <u>current</u> 7 3 6 <u>current</u> 0 8.6	 history1 history1 history1	 history2 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>+100 >20 limit/base >20 >30	0 109 <1 98 1937 785 942 3244 <u>current</u> 7 3 6 <u>current</u> 0 8.6 19.7	 history1 history1 history1	 history2 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7615	>+100 >20 limit/base >20 >30 limit/base	0 109 <1 98 1937 785 942 3244 current 7 3 6 current 0 8.6 19.7 current	history1 history1 history1 history1 history1 history1	 history2



Abn 12 11 Jan 12/24

OIL ANALYSIS REPORT



	VISUAL		method				history2
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
nah 12/24	Appearance	scalar	*Visual	NORML	NORML		
an Can	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445		13.0		
	GRAPHS						
	Ferrous Alloys						
	10 iron]						
	8 - nickel						
	6						
	4						
	2-						
	0		*****	******			
	Jan 12/24			Jan 12/24			
	, and			Jan1			
	Non-ferrous Meta						
	Non-remous meta	IS					
	¹⁰ T	lls					
	copper 8	ils					
	10 copper	lls					
	8 6	lls					
	copper 8	lls					
	8 6	ils					
	8 6	lls					
	Copper 8 6 4						
	Copper social stands social st						
	10 8 6 4 2			Jan12/24			
	Copper social stands social st				Pace Number		
	to copper tead				Base Number		
	Viscosity @ 100°C			Jan 12/24 +	T		
	Viscosity @ 100°C			++2/21 3.5			
	Viscosity @ 100°C			++2/21 3.5			
	Viscosity @ 100°C			++2/21 3.5			
	Viscosity @ 100°C			++2/21 3.5			
	Viscosity @ 100°C			3.5 3.0 (b/HOX) Jagummy asea 1.0			
	Viscosity @ 100°C			3.5 3.0 (0) KOM Bage Muniter Base Muniter Base Num Base O Base O Social State			
	Viscosity @ 100°C			472711mer 47711mer 47711m			
	Viscosity @ 100°C			472711mer 47711mer 47711m			2
	Viscosity @ 100°C			3.5 3.0 (0) KOM Bage Muniter Base Muniter Base Num Base O Base O Social State			
Laboratory	Viscosity @ 100°C	C		4221mer 42224 12024	Jan 12/24	/alley Waste -	
Sample No.	Viscosity @ 100°C	501 Madis Recieved	son Ave., Ca	472711 47271 472751 4727513 4727512	Jan 12/24		SEW Locatio
Sample No. Lab Number	Viscosity @ 100°C	501 Madia Recieved	son Ave., Ca d : 30 v ed : 30 v	+72711 +72711 +727513 +727513 Jan 2024 Jan 2024 Jan 2024	Jan 12/24		SEW Location 09 Salina Roa Sewell, N
Sample No. Lab Number Unique Number	Viscosity @ 100°C	501 Madia Recieved Diagnost	son Ave., Ca d : 30 d ed : 30 d tician : Wea	472711 47271 472751 4727513 4727512	Jan 12/24	3	SEW Location 09 Salina Roa Sewell, N US 0808
Sample No. Lab Number	Viscosity @ 100°C	501 Madia Recieved Diagnost Ji Tests: T	son Ave., Ca d : 30 v ed : 30 v tician : Wes BN)	+727Luer +727Luer +727Luer +727Luer +727Luer +727Luer +727Luer +727513 Jan 2024 Jan 2024 Jan 2024 Jan 2024 Jan 2024 Jan 2024	Jan 12/24	3	



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Contact/Location: Service Manager - AVWSEW