

OIL ANALYSIS REPORT

Area COLORADO/443/EG - TRUCK-ON-HWY-HEAVY DUTY 06.108 [COLORADO^443^EG - TRUCK-ON-HWY-HEAVY DUTY]

Gasoline Engine

Fluid MOBIL 1 5W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

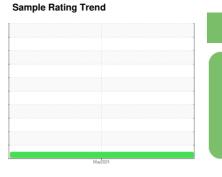
All component wear rates are normal.

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 acceptable for the time in service.



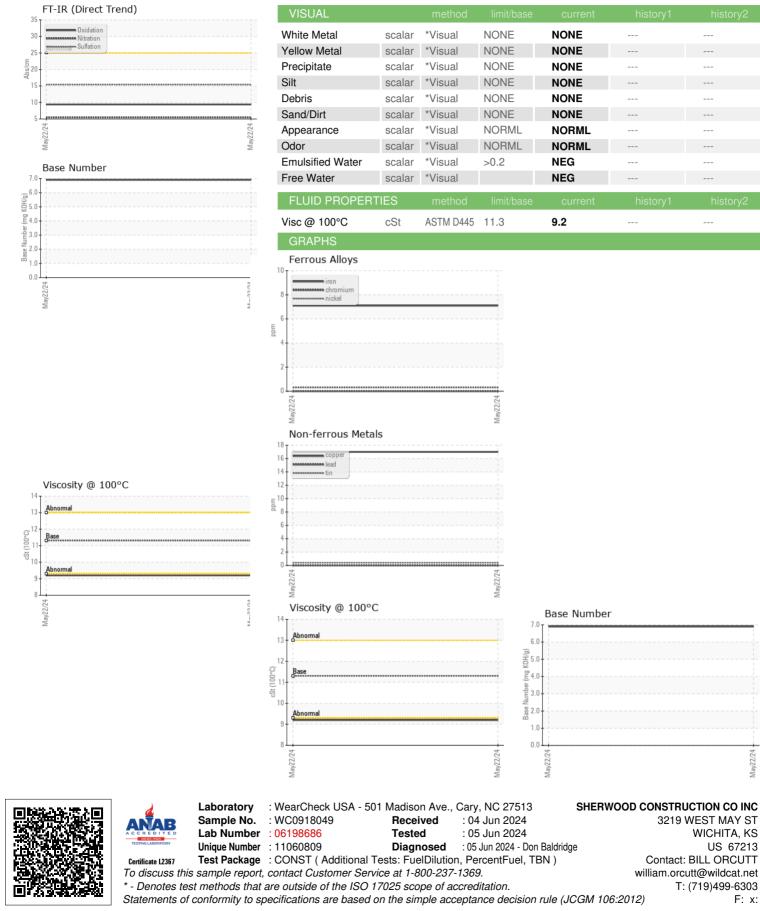


NORMAL

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0918049		
Sample Date		Client Info		22 May 2024		
Machine Age	mls	Client Info		90		
Oil Age	mls	Client Info		90		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method	- 012	NEG		
	_					
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	7		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>40	4		
Lead	ppm	ASTM D5185m	>50	0		
Copper	ppm	ASTM D5185m	>155	17		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
		method	initia baoo	Gunchi	TIIStOLA	motoryz
Boron	ppm	ASTM D5185m	94	193		
	ppm ppm					
Boron		ASTM D5185m	94	193		
Boron Barium	ppm	ASTM D5185m ASTM D5185m	94 0.0	193 0		
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0	193 0 118		
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0	193 0 118 3		
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0 1388	193 0 118 3 357		
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820	193 0 118 3 357 1178	 	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820 720	193 0 118 3 357 1178 634	 	
Boron 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 ASTM D5185m	94 0.0 0.0 1388 820 720 780	193 0 118 3 357 1178 634 711		
Boron 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 ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 Limit/base	193 0 118 3 357 1178 634 711 3169		
Boron 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 ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 limit/base >30	193 0 118 3 357 1178 634 711 3169 current		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus 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 ASTM D5185m method ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 limit/base >30	193 0 118 3 357 1178 634 711 3169 current 47	 history1 	 history2
Boron 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 ASTM D5185m method ASTM D5185m	94 0.0 0.0 1388 820 720 720 780 2240 limit/base >30 >400 >20	193 0 118 3 357 1178 634 711 3169 current 47 5	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820 720 720 780 2240 limit/base >30 >400 >20	193 0 118 3 357 1178 634 711 3169 current 47 5 4	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 2240 limit/base >30 >400 >20 >20	193 0 118 3 357 1178 634 711 3169 current 47 5 4 4 <1.0	 history1 	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 2240 <i>limit/base</i> >30 >400 >20 >20 >4.0	193 0 118 3 357 1178 634 711 3169 <i>current</i> 47 5 4 <1.0 <i>current</i>	 history1 history1	 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 2240 <i>limit/base</i> >30 >400 >20 >20 >4.0	193 0 118 3 357 1178 634 711 3169 <i>current</i> 47 5 4 4 <1.0 <i>current</i>	 history1 history1 	 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7844	94 0.0 0.0 1388 820 720 780 2240 2240 2240 230 >30 >400 >20 >4.0 20 24.0	193 0 118 3 357 1178 634 711 3169 Current 47 5 4 <1.0 Current 0.1 5.5	 history1 history1 history1	 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	94 0.0 0.0 1388 820 720 780 2240 Imit/base >30 >400 >20 >20 >4.0 Imit/base	193 0 118 3 357 1178 634 711 3169 <u>current</u> 47 5 4 <1.0 <u>current</u> 0.1 5.5 15.4	 history1 history1 history1	 history2 history2 history2



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Submitted By: KEVIN HOHEISEL