

OIL ANALYSIS REPORT



Machine Id OR352

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 40 (40 LTR)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

A Wear

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.

Contamination

There is no indication of any contamination in the oil.

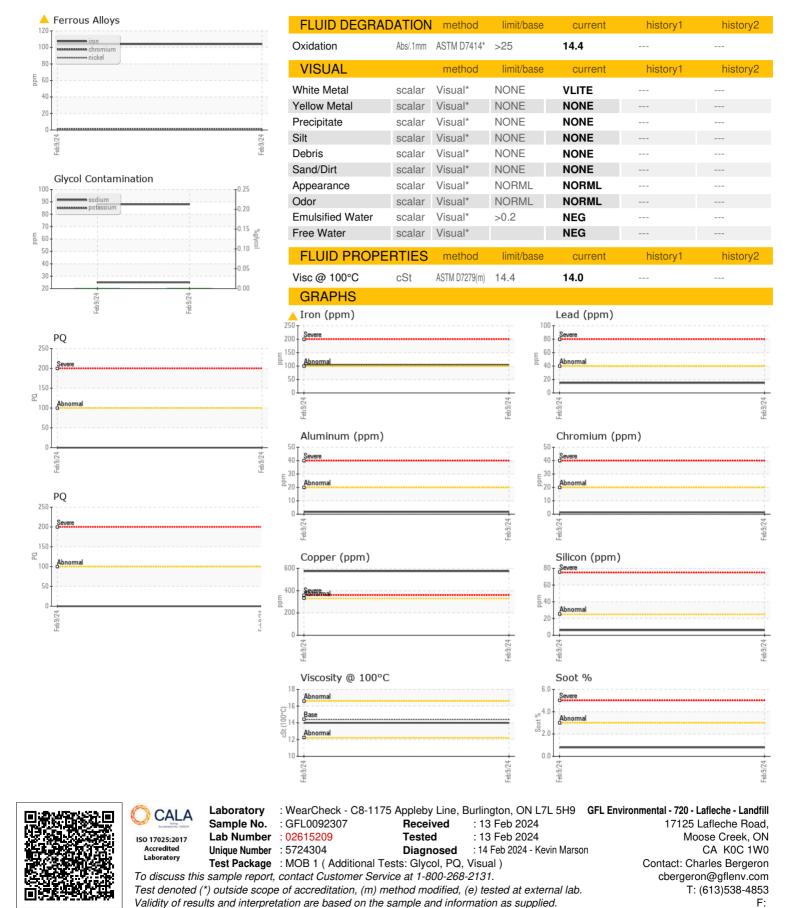
Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092307		
Sample Date		Client Info		09 Feb 2024		
Machine Age	hrs	Client Info		14957		
Oil Age	hrs	Client Info		14957		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
WEAR METALS	2	method	limit/base	current	history1	history2
	5		in in base			
PQ	0000	ASTM D8184*	>100	0		
Iron	ppm	ASTM D5185(m)		▲ 104 1		
Chromium Nickel	ppm	ASTM D5185(m)	>20	1 0		
Titanium	ppm	ASTM D5185(m) ASTM D5185(m)	>4	0		
Silver	ppm		. 0			
Aluminum	ppm	ASTM D5185(m) ASTM D5185(m)	>3 >20	0 2		
Lead	ppm	ASTM D5185(m)	>20	2 15		
	ppm	ASTM D5185(m)	>40	574		
Copper Tin	ppm			<1		
Antimony	ppm	ASTM D5185(m) ASTM D5185(m)	>10	<1		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
				U		
	ppm					
Cadmium	ppm	ASTM D5185(m)		0		
			limit/base		 history1	 history2
Cadmium		ASTM D5185(m) method ASTM D5185(m)	limit/base 250	0 current 7		
Cadmium ADDITIVES Boron Barium	ppm	ASTM D5185(m) method		0 current	history1	history2
Cadmium ADDITIVES Boron Barium Molybdenum	ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250	0 current 7 0 62	history1	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100	0 current 7 0 62 <1	history1 	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10	0 current 7 0 62 <1 929	history1 	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000	0 current 7 0 62 <1 929 1148	history1 	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150	0 current 7 0 62 <1 929 1148 982	history1	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150 1350	0 current 7 0 62 <1 929 1148 982 1157	history1	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150	0 current 7 0 62 <1 929 1148 982	history1	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150 1350	0 current 7 0 62 <1 929 1148 982 1157	history1	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150 1350	0 current 7 0 62 <1 929 1148 982 1157 2458	history1	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150 1350 4250	0 current 7 0 62 <1 929 1148 982 1157 2458 <1	history1	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN	ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150 1350 4250 limit/base	0 current 7 0 62 <1 929 1148 982 1157 2458 <1 2458 <1	history1	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon	ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150 1350 4250 limit/base >25	0 current 7 0 62 <1 929 1148 982 1157 2458 <1 current 6	history1	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium	ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150 1350 4250 limit/base >25 >216	0 current 7 0 62 <1 929 1148 982 1157 2458 <1 current 6 88	history1	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium	ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150 1350 4250 limit/base >25 >216	0 current 7 0 62 <1 929 1148 982 1157 2458 <1 current 6 88 25	history1	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Glycol	ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150 1350 4250 imit/base >25 >216 >20	0 current 7 0 62 <1 929 1148 982 1157 2458 <1 current 6 88 25 0.0	history1 history1	history2 history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED	ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150 1350 4250 20 iimit/base >25 >216 >20 iimit/base	0 current 7 0 62 <1 929 1148 982 1157 2458 <1 current 6 88 25 0.0 current	history1	history2
Cadmium ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Solium Potassium Glycol INFRA-RED Soot %	ppm ppm %	ASTM D5185(m) ASTM D5185(m)	250 10 100 450 3000 1150 1350 4250 20 imit/base >25 >216 >20 imit/base >3	0 current 7 0 62 <1 929 1148 982 1157 2458 <1 current 6 88 25 0.0 current 0.8	history1	history2



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