

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 414087

Component 1 Diesel Engine

Fluid {not provided} (10 GAL

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.

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.

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				Mar2024	In the transmission	history O
SAMPLE INFO			limit/base	current	history1	history2
Sample Number		Client Info		GFL0109175		
Sample Date		Client Info		05 Mar 2024		
Machine Age	hrs	Client Info		579		
Oil Age	hrs	Client Info		579		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	34		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	5		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>20	10		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	170		
Tin	ppm		>15	3		
Vanadium	ppm	ASTM D5185m	210	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		239		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		114		
Manganese	ppin	AO INI DOTODITI		117		
Manyanese	nnm	ASTM D5185m		Λ		
Magnesium	ppm	ASTM D5185m		4 701		
Magnesium	ppm	ASTM D5185m		701		
Calcium	ppm ppm	ASTM D5185m ASTM D5185m		701 1372		
Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		701 1372 690		
Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		701 1372 690 810		
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		701 1372 690 810 2298	 	
Calcium Phosphorus Zinc Sulfur CONTAMINA	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	701 1372 690 810 2298 current	 	
Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon	ppm ppm ppm ppm ppm ppm NTS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base	701 1372 690 810 2298 current ▲ 57	 	
Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25	701 1372 690 810 2298 current ▲ 57 4	 history1 	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	701 1372 690 810 2298 current ▲ 57 4 23	 history1 	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25	701 1372 690 810 2298 current ▲ 57 4	 history1 	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	701 1372 690 810 2298 current ▲ 57 4 23	 history1 	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm 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 D3524	>25 >20 >3.0	701 1372 690 810 2298 current ▲ 57 4 23 0.6	 history1 	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm 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 ASTM D3524	>25 >20 >3.0 limit/base	701 1372 690 810 2298 current ▲ 57 4 23 0.6 current	 history1 history1	 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm 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 D3524 method *ASTM D7844	>25 >20 >3.0 limit/base >4 >20	701 1372 690 810 2298 current ▲ 57 4 23 0.6 current 0.3	 history1 history1	 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm 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 ASTM D3524 *ASTM D7844 *ASTM D7824	>25 >20 >3.0 limit/base >4 >20	701 1372 690 810 2298 current ▲ 57 4 23 0.6 current 0.3 9.6	 history1 history1	 history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINA Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm 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 D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 >3.0 limit/base >4 >20 >30	701 1372 690 810 2298 current ▲ 57 4 23 0.6 current 0.3 9.6 24.3	history1 history1 history1	 history2 history2 history2



DIRT



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