

OIL ANALYSIS REPORT



Machine Id 200299

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

🔺 Wear

Chromium ppm levels are abnormal. Ring 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.

				0ct2021		
SAMPLE INFOR		method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0024265		
Sample Date		Client Info		30 Oct 2021		
Machine Age	hrs	Client Info		17808		
Oil Age	hrs	Client Info		580		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>110	48		
Chromium	ppm	ASTM D5185(m)	>4	<u> </u>		
Nickel	ppm	ASTM D5185(m)	>2	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>2	<1		
Aluminum	ppm	ASTM D5185(m)	>25	5		
Lead	ppm	ASTM D5185(m)	>45	<1		
Copper	ppm	ASTM D5185(m)	>85	2		
Tin	ppm	ASTM D5185(m)	>4	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	11		
Barium	ppm	ASTM D5185(m)	10	0		
Molybdenum	ppm	ASTM D5185(m)	100	58		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)	450	978		
Calcium	ppm	ASTM D5185(m)	3000	1022		
Phosphorus	ppm	ASTM D5185(m)	1150	1039		
Zinc	ppm	ASTM D5185(m)	1350	1193		
Sulfur	ppm	ASTM D5185(m)	4250	2341		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	6		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.1		
Nitration	Abs/cm	ASTM D7624*	>20	12.5		
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.2		



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30

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(100°C)

Ab

Base

Abnorm

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