

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **429** Component **Diesel Engine** Fluid **SAE 10W30 (--- GAL)** 

#### DIAGNOSIS

#### A Recommendation

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

#### Wear

All component wear rates are normal.

### Contamination

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative.

#### Fluid Condition

The condition of the oil is acceptable for the time in service (see recommendation).

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0948305		
Sample Date		Client Info		30 May 2024		
Machine Age	mls	Client Info		147241		
Oil Age	mls	Client Info		12009		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION		method	limit/base	current	historv1	historv2
Fuel	•	WC Method	<u>\</u> 3.0	<10		
Water		WC Method	>0.0	NEG		
Valei			20.L	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	36		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>2	0		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>20	4		
Lead	ppm	ASTM D5185(m)	>40	0		
Copper	ppm	ASTM D5185(m)	>330	24		
Tin	ppm	ASTM D5185(m)	>15	0		
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)		3		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		66		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)		1018		
Calcium	ppm	ASTM D5185(m)		1094		
Phosphorus	ppm	ASTM D5185(m)		947		
Zinc	ppm	ASTM D5185(m)		1226		
Sulfur	ppm	ASTM D5185(m)		2293		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3		
Sodium	ppm	ASTM D5185(m)	>228	28		
Potassium	ppm	ASTM D5185(m)	>20	<u>4</u> 2		
Glycol	%	ASTM D7922*		0.0		
INEBA-BED		method	limit/base	current	history1	history2
Soot %	%		>6	0.5		
Nitration	/o Abs/om	ASTM D76944	>20	11 3		
Sulfation	Abs/CIII	ASTM D7/15*	>20	22.4		
Sullation	MD2/.111111	AOTIVI D7415	>00	22.4		



Abnormal

3

31

<sub>ا</sub>25

10

10

3

3

15

14

13 Abnorma

cSt (100°C)

8

6T

Mav/30/24

Base Abnorma

Abnormal

Abs

# **OIL ANALYSIS REPORT**



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Contact/Location: Travis Spence - MANMIS Page 2 of 2