

# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id 414086 Component 1 Diesel Engine Fluid {not provided} (40 QTS)

### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

Fuel content negligible. 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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108419		
Sample Date		Client Info		07 Feb 2024		
Machine Age	hrs	Client Info		550		
Oil Age	hrs	Client Info		550		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
	0	mothod	limit/bass	ourropt	biotonut	biotony?
	5	method	IIIIII/Dase	current	nistory i	TIIStOLYZ
Iron	ppm	ASTM D5185m	>120	45		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>5	9		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	1		
Aluminum	ppm	ASTM D5185M	>20	10		
Lead	ppm	ASTM D5185M	>40	<1		
Copper	ppm		>330	119		
Manadium	ppm	ASTM DE105m	>15	3		
Cadmium	ppm	AGTIM D5105III		U -1		
Caumum	ррп	ASTIM DS105III		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		240		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		126		
Manganese	ppm	ASTM D5185m		4		
Magnesium	ppm	ASTM D5185m		769		
Calcium	ppm	ASTM D5185m		1478		
Phosphorus	ppm	ASTM D5185m		778		
Zinc	ppm	ASTM D5185m		966		
Sulfur	ppm	ASTM D5185m		2440		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	73		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	28		
Fuel	%	ASTM D3524	>3.0	0.6		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	9.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9		
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.5		
Base Number (BN)	mg KOH/g	ASTM D2896		7.5		



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