

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL



Machine Id 550245

Component Diesel Engine

{not provided} (--- LTR)

DIAGNOSIS

A Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring.

Fluid Condition

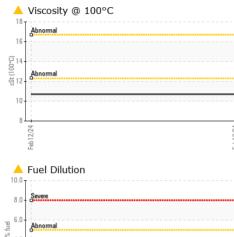
Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

				Feb2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102606		
Sample Date		Client Info		12 Feb 2024		
Machine Age	hrs	Client Info		4450		
Oil Age	hrs	Client Info		500		
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 METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	4		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>2	<1		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>25	2		
Lead	ppm	ASTM D5185(m)	>40	0		
Copper	ppm	ASTM D5185(m)	>330	<1		
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)		57		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		927		
Calcium	ppm	ASTM D5185(m)		1035		
Phosphorus	ppm	ASTM D5185(m)		990		
Zinc	ppm	ASTM D5185(m)		1133		
Sulfur	ppm	ASTM D5185(m)		2658		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3		
Sodium	ppm	ASTM D5185(m)		1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Fuel	%	ASTM D7593*	>5	<mark>/</mark> 3.9		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	6.8		
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.1		



4.0 2.0

Feb 1



FLUID DEGRA	DATION	method	limit/base	current	history1	histor
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.5		
VISUAL		method	limit/base	current	history1	histor
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	VLITE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*	>0.2	NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPE	ERTIES	method	limit/base	current	history1	histor
Visc @ 100°C	cSt	ASTM D7279(m)		10.7		
GRAPHS						
Iron (ppm)			11	Lead (ppm)		
200 - Severe				80 Severe		
150-			шdd	60		
150 100 - Abnormal				40 - Abnormal		
50				20		
Feb12/24-			Feb 12/24 -	Feb12/24		
Feb1			Feb1	Feb1		
Aluminum (ppm)				Chromium (p	pm)	
50 40 Severe				40 Severe		
Ť				1		
Abnormal			mdd	20 - Abnormal		
10-				10		
24			/24	0 1 24 10		
Feb 12/24			Feb 12/24	Feb 12/24		
Copper (ppm)				Silicon (ppm)		
				80 Severe		
300 -				60		
틆 200			E C	40 Abacmal		
100 -				20 - Abnormal		
0			4	0		
Feb 12/24			Feb 12/24	Feb 12/24		
	~					
Viscosity @ 100°	U		10	Fuel Dilution		
				8.0 - Severe		
0-14 -001 #312			4	Abnormal		
				1.0 -		
8).0		
2/24						
Feb			Feb 1.	Feb1		
: WearCheck - C8-117 : GFL0102606 : 02616559	75 Appleby Recei Teste	ved : 20	gton, ON L7 Feb 2024 Feb 2024	²⁷ 21بوب _ا 7L 5H9 GFL En v	/ironmental - 554 8409 -	- Edmonto 15th Stree Edmontor

OIL ANALYSIS REPORT

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

CALA

ISO 17025:2017 Accredited Laboratory

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