

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 153000 Component **Diesel Engine** MOBIL 1 5W30 (--- GAL)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100635		
Sample Date		Client Info		16 Nov 2023		
Machine Age	kms	Client Info		17755		
Oil Age	kms	Client Info		3099		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
WEAR METAL	e	method	limit/base	current	history1	history2
					Tilstory i	
Iron	ppm	ASTM D5185(m)	>100	66		
Chromium	ppm	ASTM D5185(m)	>20	2		
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	11		
Lead	ppm	ASTM D5185(m)	>40	2		
Copper	ppm	ASTM D5185(m)	>330	43		
Tin	ppm	ASTM D5185(m)	>15	<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)	94	28		
Barium	ppm	ASTM D5185(m)	0.0	1		
Molybdenum	ppm	ASTM D5185(m)	0.0	143		
Manganese	ppm	ASTM D5185(m)		5		
Magnesium	ppm	ASTM D5185(m)	1388	405		
Calcium	ppm	ASTM D5185(m)	820	1338		
Phosphorus	ppm	ASTM D5185(m)	720	657		
Zinc	ppm	ASTM D5185(m)	780	781		
Sulfur	ppm	ASTM D5185(m)	2240	2222		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	68		
Sodium	ppm	ASTM D5185(m)		11		
Potassium	ppm	ASTM D5185(m)	>20	5		
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	20.0		
Sulfation	Abs/.1mm	ASTM D7415*	>30	48.2		
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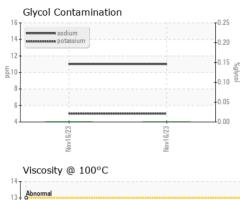
FLUID DEGRADATION method

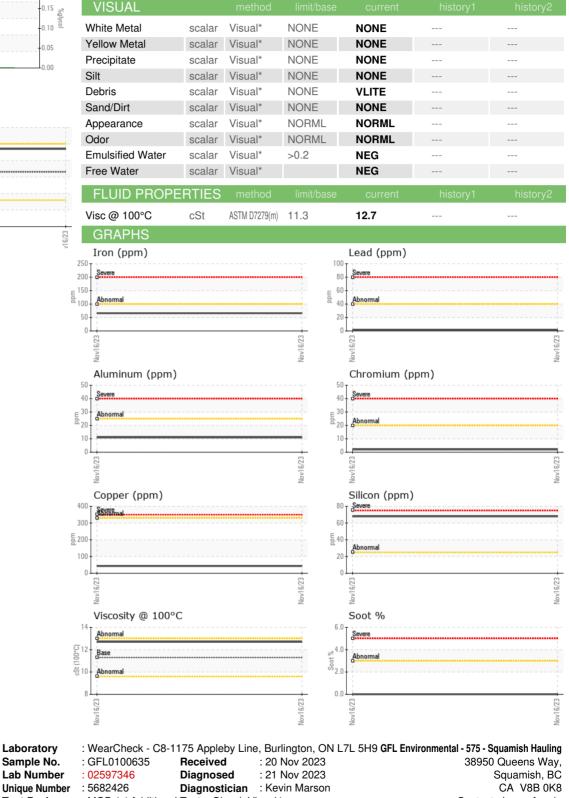
Oxidation

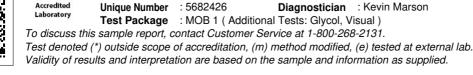
Abs/.1mm ASTM D7414*

>25

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ISO 17025:2017