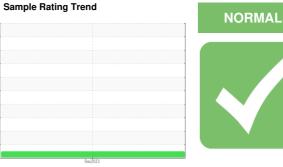


# **OIL ANALYSIS REPORT**



Machine Id 60

Component **Diesel Engine** 

**DIESEL ENGINE OIL SAE 15W40 (--- GAL)** 

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

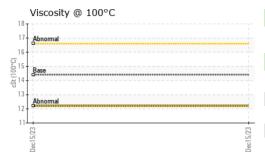
### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

)				Dec2023		
SAMPLE INFORM	AATION	mathad			historya	history?
	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0846156		
Sample Date		Client Info		15 Dec 2023		
Machine Age	kms	Client Info		418366		
Oil Age	kms	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	11		
Chromium	ppm	ASTM D5185(m)	>20	0		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	<1		
Aluminum	ppm	ASTM D5185(m)	>20	5		
Lead	ppm	ASTM D5185(m)	>40	1		
Copper	ppm	ASTM D5185(m)	>330	2		
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)	250	54		
Barium	ppm	ASTM D5185(m)	10	<1		
Molybdenum	ppm	ASTM D5185(m)	100	17		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)	450	65		
Calcium	ppm	ASTM D5185(m)	3000	1984		
Phosphorus	ppm	ASTM D5185(m)	1150	819		
Zinc	ppm	ASTM D5185(m)		990		
Sulfur	ppm	ASTM D5185(m)	4250	2669		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4		
Sodium	ppm	ASTM D5185(m)	>158	4		
Potassium	ppm	ASTM D5185(m)	>20	5		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0		
Nitration	Abs/cm	ASTM D7624*	>20	10.7		
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.2		



## **OIL ANALYSIS REPORT**



FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	25.2		
VISUAL		method	limit/base	current	history1	history2
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 PROPER	ΓIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	12.2		
GRAPHS						
Iron (ppm)				Lead (ppm)		
Severe			100	Severe		
00 +						
Abnormal			E 40	Abnormal		
1			20	+		
23			23	23		
Dec15/23			Dec15/23	Dec15/23		
Aluminum (ppm)				Chromium (p	nm)	
OT Severe			50	т :	PIII)	
10			40	Severe		
Abnormal			30 E 20	Abnormal		
10			10			
0						
Dec15/23			Dec15/23	15/23		
Dec			Dec	Decl		
Copper (ppm)			80	Silicon (ppm)		
Severe Supromation				0		
IU +			60	T		
Li			Ε	i i		
00			튑40	Abnormal		
			20 0	Abnormal		

Soot %

8.0 6.0

2.0 0.0



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number : 5697076

: 02603991

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0846156

Viscosity @ 100°C

Recieved Diagnosed

: 20 Dec 2023 Diagnostician : Kevin Marson

: 19 Dec 2023

Test Package : MOB 1 (Additional Tests: Visual)

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.

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