

[1263500]

114012

Diesel Engine

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

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test

Sample Number

Sample Date

UOM

Method

Client Info

Client Info

Limit/Abn

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

Fuel content negligible. Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solde flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination ir

the oil.

	oumpic Dute				22 Api 2024	
	Machine Age	kms	Client Info		180	
	Oil Age	kms	Client Info		0	
	Filter Age	kms	Client Info		0	
	Oil Changed		Client Info		Changed	
	Filter Changed		Client Info		Changed	
	Sample Status				ABNORMAL	
	Iron	ppm	ASTM D5185(m)	>90	45	
	Chromium	ppm	ASTM D5185(m)	>20	<1	
	Nickel	ppm	ASTM D5185(m)	>2	<1	
	Titanium	ppm	ASTM D5185(m)	>2	0	
	Silver	ppm	ASTM D5185(m)	>2	<1	
	Aluminum	ppm	ASTM D5185(m)	>20	7	
	Lead	ppm	ASTM D5185(m)	>40	3	
	Copper	ppm	ASTM D5185(m)	>330	23	
	Tin	ppm	ASTM D5185(m)	>15	2	
	Vanadium	ppm	ASTM D5185(m)		0	
	White Metal	scalar	Visual*	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	
	Silicon	ppm	ASTM D5185(m)	>25	48	
	Potassium	ppm	ASTM D5185(m)	>20	16	
er	Fuel	%	ASTM D7593*	>3.0	0.3	
	Water		WC Method	>0.2	NEG	
n	Glycol		WC Method		NEG	
	Soot %	%	ASTM D7844*	>6	0	
	Nitration	Abs/cm	ASTM D7624*	>20	7.7	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	22.7	
	Silt	scalar	Visual*	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	
	Appearance	scalar	Visual*	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.2	NEG	
	0			450	_	
	Sodium	ppm	ASTM D5185(m)	>158	5	
	Boron	ppm	ASTM D5185(m)	250	49	
	Barium	ppm	ASTM D5185(m)	10	5	
	Molybdenum	ppm	ASTM D5185(m)	100	50	
	Manganese	ppm	ASTM D5185(m)	450	5	
	Magnesium	ppm	ASTM D5185(m)	450	561	
	Calcium	ppm	ASTM D5185(m)	3000	1551	
	Phosphorus	ppm	ASTM D5185(m)	1150	714	
	Zinc	ppm	ASTM D5185(m)	1350	840	
	Sulfur	ppm	ASTM D5185(m)	4250	1925	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	20.8	
	Visc @ 100°C	cSt	ASTM D7279(m)	14.4	9.7	

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION **ABNORMAL**

Current

GFL0118506

22 Apr 2024

History1

History2



