

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

TICO 824-8959

Component

Diesel Engine

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

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 15W40. Please confirm.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

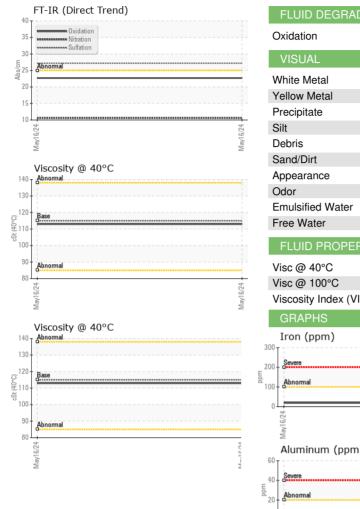
Fluid Condition

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

SAMPLE INFORMATION method limit/base current history1 history2
Sample Number Client Info WC0683840
Sample Number Client Info WC0683840
Sample Date Client Info 16 May 2024
Machine Age hrs Client Info 5432 Oil Age hrs Client Info 0 Oil Changed Client Info Changed Sample Status NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <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) >100 19 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >20 <1 WEAR METALS method limit/base current history1
Oil Age hrs Client Info 0 Oil Changed Client Info Changed Sample Status NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <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) >100 19 Chromium ppm ASTM D5185(m) >20 <1 Nickel ppm ASTM D5185(m) >3 0 Silver ppm ASTM D5185(m) >20 4 Lead ppm ASTM D5185(m) >330 2
Oil Changed Sample Status Client Info Changed NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0
Sample Status
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0 Water WC Method NEG Glycol WC Method NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >100 19 Chromium ppm ASTM D5185(m) >20 <1 Nickel ppm ASTM D5185(m) >4 <1 Silver ppm ASTM D5185(m) >3 0 Aluminum ppm ASTM D5185(m) >20 4 Lead ppm ASTM D5185(m) >330 2 Copper ppm ASTM D5185(m) >330 2 Antimon
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Water WC Method >0.2 NEG Glycol WC Method NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >100 19 Chromium ppm ASTM D5185(m) >20 <1 Nickel ppm ASTM D5185(m) >4 <1 Silver ppm ASTM D5185(m) >3 0 Aluminum ppm ASTM D5185(m) >20 4 Lead ppm ASTM D5185(m) >330 2 Lead ppm ASTM D5185(m) >330 2 Copper ppm ASTM D5185(m) 0 Antimony ppm ASTM D5185(m) 0 Vana
Silver ppm ASTM D5185(m) >100 19
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Nickel ppm ASTM D5185(m) >4 <1
Titanium ppm ASTM D5185(m) 0 Silver ppm ASTM D5185(m) >3 0 Aluminum ppm ASTM D5185(m) >20 4 Lead ppm ASTM D5185(m) >40 0 Copper ppm ASTM D5185(m) >330 2 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) 250 65 <td< th=""></td<>
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Aluminum ppm ASTM D5185(m) >20 4 Lead ppm ASTM D5185(m) >40 0 Copper ppm ASTM D5185(m) >330 2 Tin ppm ASTM D5185(m) 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) 250 65 Barium ppm ASTM D5185(m) 10 0 Manganese ppm ASTM D5185(m) 450 13
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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 65 Barium ppm ASTM D5185(m) 10 0 Molybdenum ppm ASTM D5185(m) 100 <1 Magnesium ppm ASTM D5185(m) 450 13
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Boron ppm ASTM D5185(m) 250 65 Barium ppm ASTM D5185(m) 10 0 Molybdenum ppm ASTM D5185(m) 100 <1
Barium ppm ASTM D5185(m) 10 0 Molybdenum ppm ASTM D5185(m) 100 <1
Molybdenum ppm ASTM D5185(m) 100 <1
Manganese ppm ASTM D5185(m) <1
Magnesium ppm ASTM D5185(m) 450 13
Calcium nnm 4STM D5185(m) 3000 2268
Phosphorus ppm ASTM D5185(m) 1150 904
Zinc ppm ASTM D5185(m) 1350 1164
Sulfur ppm ASTM D5185(m) 4250 2832
Lithium ppm ASTM D5185(m) <1
CONTAMINANTS method limit/base current history1 history2
Silicon ppm ASTM D5185(m) >25 3
Sodium ppm ASTM D5185(m) >158 3
Potassium ppm ASTM D5185(m) >20 8
INFRA-RED method limit/base current history1 history2
INFRA-RED method limit/base current history1 history2 Soot % % ASTM D7844* >3 0.1
,



OIL ANALYSIS REPORT



FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.7		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	VLITE		
Precipitate	scalar	Visual*	NONE	NONE		
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		
Free Water	scalar	Visual*		NEG		
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	115	113		
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.5		
Viscosity Index (VI)	Scale	ASTM D2270*	126	130		
GRAPHS						
Iron (ppm)				Lead (ppm)		
300						
200 Severe				I		
Abnormal			E 5	Abnormal		
0				0		
•						5/24
May16/24			May16/24	May16/24		May16/24
Aluminum (ppm)			6	Chromium (p	pm)	
Severe			4	Smiore		
Abnormal 20			Edd	Ahnormal		
20 - 0			2	0 - 4		-
0 4				0 1		42
May16/24			May16/24	May16/24		May16/24
≅ Copper (ppm)			Σ	≤ Silicon (ppm)		Σ
400 Severe			8			
300						
200			E 4	Abnormal		
100			2			
0 +5				24		24
May16/24			May16/24	May16/24		May16/24
≥ Viscosity @ 100°C			2	≥ Soot %		≥
Abnormal			6.			
Base			₂ e 4.			
Base Abnormal			≥e 4.1 S 2.1	Abnormal		
l i						
10 4 5 7 9			- 16/24	0 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		724
y16,			y16,	у16.		y16/24





Laboratory Sample No.

Lab Number : 02643108 Unique Number : 5800647

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0683840

Received **Tested** Diagnosed

: 20 Jun 2024 : 21 Jun 2024 : 21 Jun 2024 - Wes Davis

Test Package : MOB 1 (Additional Tests: KV40, VI, 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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