

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id

TICO 824-8278

Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. No other corrective action is recommended at this time.

📥 Wear

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

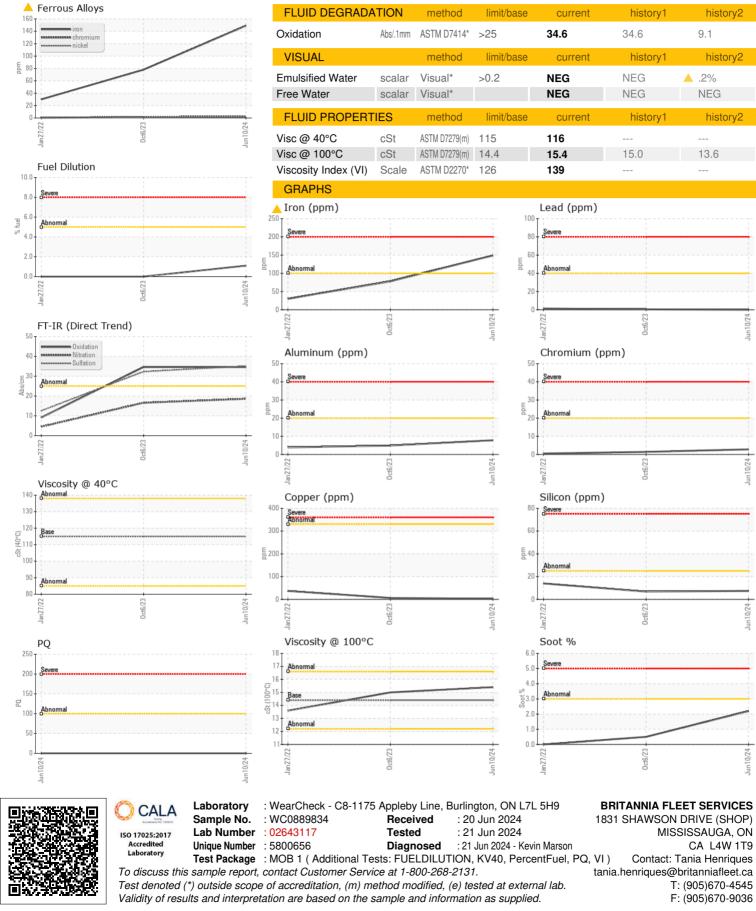
Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0889834	WC0818382	WC0636619
Sample Date		Client Info		10 Jun 2024	06 Oct 2023	27 Jan 2022
Machine Age	hrs	Client Info		5247	4690	1386
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	▲ 0.078
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0		
Iron	ppm	ASTM D5185(m)	>100	<u> </u>	78	30
Chromium	ppm	ASTM D5185(m)	>20	3	1	<1
Nickel	ppm	ASTM D5185(m)	>4	1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	8	5	4
Lead	ppm	ASTM D5185(m)	>40	0	<1	1
Copper	ppm	ASTM D5185(m)	>330	3	6	37
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	2	3	71
Barium	ppm	ASTM D5185(m)	10	<1	<1	2
Molybdenum	ppm	ASTM D5185(m)	100	<1	<1	11
Manganese	ppm	ASTM D5185(m)		2	<1	2
Magnesium	ppm	ASTM D5185(m)	450	14	16	91
Calcium	ppm	ASTM D5185(m)	3000	2277	2357	2027
Phosphorus	ppm	ASTM D5185(m)	1150	786	808	909
Zinc	ppm	ASTM D5185(m)	1350	1000	1030	1098
Sulfur	ppm	ASTM D5185(m)	4250	2599	2656	2729
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	7	14
Sodium	ppm	ASTM D5185(m)	>158	3	5	11
Potassium	ppm	ASTM D5185(m)	>20	2	<1	▲ 7
Fuel	%	ASTM D7593*	>5	1.1	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	2.2	0.5	0
Soot % Nitration	% Abs/cm	ASTM D7844* ASTM D7624*	>3 >20	2.2 18.6	0.5 16.6	0 4.5



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