

OIL ANALYSIS REPORT

INTERNATIONAL NO UNIT PC0081376

Component

Diesel Engine

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

Sample Rating Trend **FUEL**

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

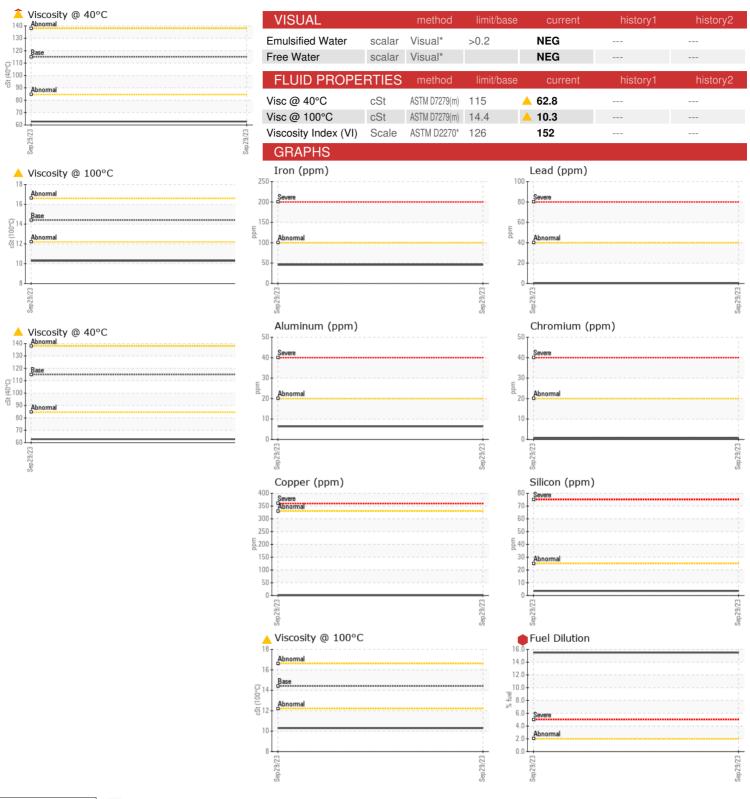
Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

				Sep 2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number	_	Client Info		PC0081376		
Sample Date		Client Info		29 Sep 2023		
Machine Age	kms	Client Info		281312		
Oil Age	kms	Client Info		4350		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	46		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>20	6		
Lead	ppm	ASTM D5185(m)	>40	<1		
Copper	ppm	ASTM D5185(m)	>330	<1		
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	4		
Barium	ppm	ASTM D5185(m)	10	0		
Molybdenum	ppm	ASTM D5185(m)	100	52		
Manganese				32		
Manua ani	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m) ASTM D5185(m)	450			
Calcium		1	450 3000	0		
	ppm	ASTM D5185(m)		0 771		
Calcium	ppm	ASTM D5185(m) ASTM D5185(m)	3000	0 771 833		
Calcium Phosphorus	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	3000 1150	0 771 833 792		
Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	3000 1150 1350	0 771 833 792 942		
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	3000 1150 1350	0 771 833 792 942 1966		
Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm	ASTM D5185(m)	3000 1150 1350 4250	0 771 833 792 942 1966 <1		
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) MASTM D5185(m) MEthod	3000 1150 1350 4250 limit/base	0 771 833 792 942 1966 <1	 history1	 history2
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	3000 1150 1350 4250 limit/base >25	0 771 833 792 942 1966 <1 current	 history1	 history2
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	3000 1150 1350 4250 limit/base >25 >158	0 771 833 792 942 1966 <1 current 4	 history1	
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	3000 1150 1350 4250 limit/base >25 >158 >20	0 771 833 792 942 1966 <1 current 4 10 2	 history1	history2
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Fuel	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD METHOD ASTM D5185(m)	3000 1150 1350 4250 limit/base >25 >158 >20 >2.0	0 771 833 792 942 1966 <1 current 4 10 2 15.5	history1	history2
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m)	3000 1150 1350 4250 limit/base >25 >158 >20 >2.0	0 771 833 792 942 1966 <1 current 4 10 2 15.5 current	history1 history1	history2 history2
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm	ASTM D5185(m) ASTM D7593* method ASTM D7844*	3000 1150 1350 4250 limit/base >25 >158 >20 >2.0 limit/base >3	0 771 833 792 942 1966 <1 current 4 10 2 15.5 current 1.5	history1 history1	history2 history2
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593* METHOD ASTM D7844* ASTM D7824* ASTM D7624* ASTM D7415*	3000 1150 1350 4250 limit/base >25 >158 >20 >2.0 limit/base >3 >20	0 771 833 792 942 1966 <1 current 4 10 2 15.5 current 1.5 12.7	history1 history1	history2 history2 history2



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: PC0081376 : 02592796 : 5669875

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

Diagnostician : Kevin Marson

Test Package : MOB 1 (Additional Tests: FUELDILUTION, KV40, PercentFuel, VI)

: 30 Oct 2023

: 01 Nov 2023

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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