

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

X

NO UNIT PC0078299

Diesel Engine Fluid SAE 5W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

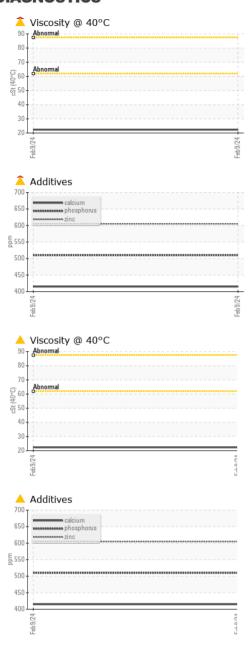
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

Visc @ 100°C is severely low. Calcium ppm levels are abnormally low. Visc @ 40°C is abnormally low. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

				Feb2024		
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0078299		
Sample Date		Client Info		09 Feb 2024		
Machine Age	hrs	Client Info		9963		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				SEVERE		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	24		
Chromium	ppm	ASTM D5185(m)	>20	2		
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	<1		
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)		24		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)		30		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		564		
Calcium	ppm	ASTM D5185(m)		<u> </u>		
Phosphorus	ppm	ASTM D5185(m)		510		
Zinc	ppm	ASTM D5185(m)		605		
Sulfur	ppm	ASTM D5185(m)		1409		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	<1		
Fuel	%	ASTM D7593*	>5	e 46.5		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1		
Nitration	Abs/cm	ASTM D7624*	>20	8.6		
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.9		





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	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	ASTM D7414*	>25	15.4		
	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	Visual*	NONE	VLITE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
	Precipitate	scalar	Visual*	NONE	NONE		
	Silt Debris	scalar scalar	Visual* Visual*	NONE NONE	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 PROPE		method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)	_	22.3		
	Visc @ 100°C Viscosity Index (VI)	cSt Scale	ASTM D7279(m) ASTM D2270*		5.2 176		
	GRAPHS	Ocale	ASTIM DZZTU		170		
	Iron (ppm)				Lead (ppm)		
	300			10			
mnn	200 - Severe			<u></u>	D T Abnormal		
0	100 Abnormal			<u>a</u>			
	54 				54		24
	Feb9/24			Feb9/24	Feb 9/24		Feb 9/24
	Aluminum (ppm)				Chromium (p	pm)	
	60 Severe			6	Savara		
	40 - Abnormal			4 udd	Abnormal		
				2	D - Abnormal		
	74 74			Feb9/24			/24
	Feb9/24			Feb 9	Feb9/24		Feb9/24
	Copper (ppm)			0	Silicon (ppm)		
	400 300			6	ų		1
	툴 200 -			E 4	Abnormal		
	100-			2			
	Feb 9/24			Feb9/24 -	Feb9/24		Feb 9,24 -
							Fet
	Viscosity @ 100°C	;		60.	Fuel Dilution		
	Distance Abnormal			40.1	D.		
	(10) 10 5 5			40. š 20.	0-		
	0				ASYROmal		
	Feb 9/24			Feb9/24	Feb 9/24		Feb9/24
	£			Ľ	تگ ا		<u>ت</u>
	: WearCheck - C8-1175				L 5H9 Green Infrastr	ucture and Partners Inc (GIPI)	286 - Shoring & Foundations
	· DC0070000	Deer	vod · * *	Eab 0004		4 - 4 - 4	Dom Earast D.
	: PC0078299 : 02615545	Recei Teste		Feb 2024 Feb 2024		151 I	Ram Forest Rd, Stouffville, ON

 Accredited Laboratory
 Unique Number
 : 5724640
 Diagnosed
 : 15 Feb 2024 - Wes Davis

 Test Package
 : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, 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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CALA

ISO 17025:2017

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