

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 333 MARKET DRIVE GEN #2 Component

Diesel Engine

PETRO CANADA XR 4 SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

🔺 Wear

Chromium ppm levels are abnormal. Ring wear is indicated.

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 as a result of the abnormal and/or severe wear.

Feb2022 Mar2023 Mar2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0910598	WC0795024	WC0647855
Sample Date		Client Info		07 Mar 2024	23 Mar 2023	28 Feb 2022
Machine Age	hrs	Client Info		0	0	77
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	12	2	3
Chromium	ppm	ASTM D5185(m)	>20	<mark>/</mark> 28	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	1	14
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>40	<1	0	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1
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)	1	4	395	89
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	1	53	81	68
Manganese	ppm	ASTM D5185(m)		0	<1	0
Magnesium	ppm	ASTM D5185(m)	10	888	363	177
Calcium	ppm	ASTM D5185(m)	3032	969	1516	1897
Phosphorus	ppm	ASTM D5185(m)	1054	923	1082	922
Zinc	ppm	ASTM D5185(m)	1332	1061	1169	1050
Sulfur	ppm	ASTM D5185(m)	3985	2580	2875	3037
Lithium	ppm	ASTM D5185(m)		<1	<1	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	24	7	8
Sodium	ppm	ASTM D5185(m)		5	2	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>5	8.6	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.1	5.2	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.8	22.2	19.0



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