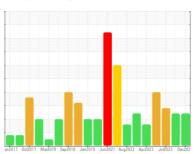


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 4555 Component

Diesel Engine

PETRO CANADA DURON XL SYN BLEND 15W40 (23 LTR)

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

The BN result indicates that there is suitable alkalinity remaining in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

15W40 (23 LIR) and 017 Oct 017 Mar 2018 Sept 018 Jan 2019 Jun 2012 Aug 2022 Apr 2023 Jul 2023 Dec 202						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0099587	GFL0091647	GFL0084273
Sample Date		Client Info		12 Dec 2023	03 Oct 2023	06 Jul 2023
Machine Age	kms	Client Info		674137	614354	674757
Oil Age	kms	Client Info		39444	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	56	17	22
Chromium	ppm	ASTM D5185(m)	>20	2	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	3	2	2
Lead	ppm	ASTM D5185(m)	>40	6	3	1
Copper	ppm	ASTM D5185(m)	>330	2	<1	1
Tin	ppm	ASTM D5185(m)	>15	1	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)	1	2	3	2
Barium	ppm	ASTM D5185(m)	1	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	42	51	45
Manganese	ppm	ASTM D5185(m)	1	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	666	805	728
Calcium	ppm	ASTM D5185(m)	1070	734	882	798
Phosphorus	ppm	ASTM D5185(m)	1150	703	856	801
Zinc	ppm	ASTM D5185(m)	1270	817	1014	890
Sulfur	ppm	ASTM D5185(m)	2060	1767	2190	1903
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	7	12
Sodium	ppm	ASTM D5185(m)		6	2	3
Potassium	ppm	ASTM D5185(m)	>20	2	0	<1
Fuel	%	ASTM D7593*	>5	19.1	● 8.3	17.3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.6	0.6	0.7
Nitration	Abs/cm	ASTM D7624*	>20	13.5	9.5	10.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.2	23.7	24.3



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number Unique Number

: 5697401

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County : GFL0099587 : 02604316

Recieved

: 20 Dec 2023 : 22 Dec 2023 Diagnosed

Diagnostician : Kevin Marson Test Package : MOB 2 (Additional Tests: PercentFuel)

Rocky View County, AB **CA T1X 1X1** Contact: GFL Calgary

calgarymaintenance@gflenv.com T:

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.

F: (403)369-6163

220 Carmek Blvd