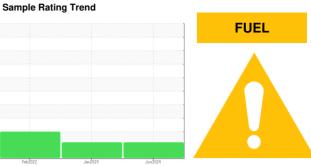


OIL ANALYSIS REPORT

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Machine Id
301287
Component

Component
Diesel Engine

PETRO CANADA SUPREME 5W30 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

.)		Feb	2022	Jan 2024 Jun 20	24	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100583	GFL0100643	GFL0024365
Sample Date		Client Info		14 Jun 2024	02 Jan 2024	23 Feb 2022
Machine Age	kms	Client Info		136876	125155	0
Oil Age	kms	Client Info		136876	0	6000
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	21	21	30
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<u>^</u> 2
Aluminum	ppm	ASTM D5185(m)	>25	4	4	5
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	<1	<1	1
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)	186	33	22	14
Barium	ppm	ASTM D5185(m)	<1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	79	75	91	73
Manganese	ppm	ASTM D5185(m)	0	3	2	3
Magnesium	ppm	ASTM D5185(m)	578	537	486	449
Calcium	ppm	ASTM D5185(m)	1002	978	948	1120
Phosphorus	ppm	ASTM D5185(m)	745	673	563	655
Zinc	ppm	ASTM D5185(m)	837	774	637	737
Sulfur	ppm	ASTM D5185(m)	2502	2387	2084	1705
Lithium	ppm	ASTM D5185(m)		<1	<1	0
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	12	9	12
Sodium	ppm	ASTM D5185(m)		4	4	4
Potassium	ppm	ASTM D5185(m)	>20	<1	2	2
Fuel	%	ASTM D7593*	>5	<u>4.1</u>	<u>▲</u> 6.1	<u></u> 5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.2	14.0	13.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	30.9	30.6	28.1



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

Lab Number : 02642486 Unique Number : 5800025

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling : GFL0100583

Received : 18 Jun 2024 **Tested**

: 19 Jun 2024 Diagnosed : 19 Jun 2024 - Kevin Marson

% fuel 4 (2.0 0.0

Test Package : MOB 1 (Additional Tests: PercentFuel, 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.

38950 Queens Way, Squamish, BC **CA V8B 0K8** Contact: Dean Imbeau dimbeau@gflenv.com

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Submitted By: Jonas Araujo