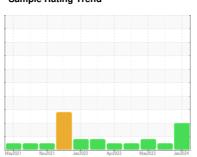


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **OE1247**

Component **Diesel Engine**

PETRO CANADA DURON UHP 5W40 (7 LTR)

DIAGNOSIS

Recommendation

We advise that you check for faulty combustion and a possible overheat condition. 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

There is no indication of any contamination in the oil.

Fluid Condition

A small degree of oil oxidation was indicated. Viscosity of sample indicates oil is within SAE 5W50 range, advise investigate. The oil is no longer serviceable.

R)		May2021	Nov2021 Jan2022	Apr2022 May2023	Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0082667	PC0077042	PC0056408
Sample Date		Client Info		25 Jan 2024	28 Jul 2023	31 May 2023
Machine Age	hrs	Client Info		7017	4016	3377
Oil Age	hrs	Client Info		250	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	10	8	13
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	3
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
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	<1
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)	65	43	35	45
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	59	57	65
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1160	1138	1140	1189
Calcium	ppm	ASTM D5185(m)	820	854	828	953
Phosphorus	ppm	ASTM D5185(m)	1160	999	1023	1084
Zinc	ppm	ASTM D5185(m)		1225	1212	1282
Sulfur Lithium	ppm	ASTM D5185(m) ASTM D5185(m)	3000	2770	2647	2790 <1
	ppm	. ,		<1		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	5	5	8
Sodium	ppm	ASTM D5185(m)		4	4	5
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.1	0	0
Nitration	Abs/cm	ASTM D7624*	>20	13.8	14.1	15.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.2	25.7	27.5



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: PC0082667

: 02612727 : 5721822

Validity of results and interpretation are based on the sample and information as supplied.

: Wear Check - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations Recieved Diagnosed

: 01 Feb 2024 : 01 Feb 2024

Diagnostician : Bill Quesnel

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

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.

151 Ram Forest Rd, Stouffville, ON

CA L4A 2G8 Contact: Shannon Abbott sabbott@gipi.com

T: (905)750-5900 F:

Report Id: GFL286 [WCAMIS] 02612727 (Generated: 02/01/2024 17:16:45) Rev: 1

Contact/Location: Shannon Abbott - GFL286