

OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Augless 0x6023 Jan 6024 Mad 6024 Mad 6024 May 6024

Machine Id ST4704

Component

Diesel Engine

PETRO CANADA DURON UHP 5W40 (--- 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

▲ Fluid Condition

A small degree of oil oxidation was indicated. The oil is no longer serviceable.

TR)		Aug 2023	Oct2023 Jan2024	MarŽ024 MarŽ024	May2024	\
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0081612	PC0082691	PC0082222
Sample Date		Client Info		30 May 2024	21 Mar 2024	02 Mar 2024
Machine Age	hrs	Client Info		8455	7371	6917
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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 METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	26	3	13
Chromium	ppm	ASTM D5185(m)	>20	4	0	2
Nickel	ppm	ASTM D5185(m)	>4	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	<1	2
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	0
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)	65	37	41	42
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	54	52	53
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1160	1066	1039	1066
Calcium	ppm	ASTM D5185(m)	820	818	793	811
Phosphorus	ppm	ASTM D5185(m)	1160	896	923	948
Zinc	ppm	ASTM D5185(m)	1260	1140	1099	1142
Sulfur	ppm	ASTM D5185(m)	3000	2402	2574	2728
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	11	1	7
Sodium	ppm	ASTM D5185(m)		5	3	4
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.2	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	14.5	7.2	11.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.3	19.3	21.1



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations : PC0081612

Lab Number : 02640674 Unique Number : 5789836

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

Received **Tested** Diagnosed

: 10 Jun 2024 : 10 Jun 2024

: 10 Jun 2024 - Kevin Marson

Stouffville, ON CA L4A 2G8 Contact: Shannon Abbott sabbott@gipi.com T: (905)750-5900

151 Ram Forest Rd,

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.