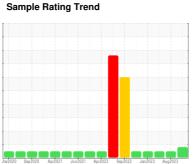


OIL ANALYSIS REPORT

Samp







Machine Id DR149

Component

Diesel Engine

PETRO CANADA DURON UHP 5W40 (36 LTR)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

🔔 Wear

Copper ppm levels are abnormal. Bearing wear is indicated.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

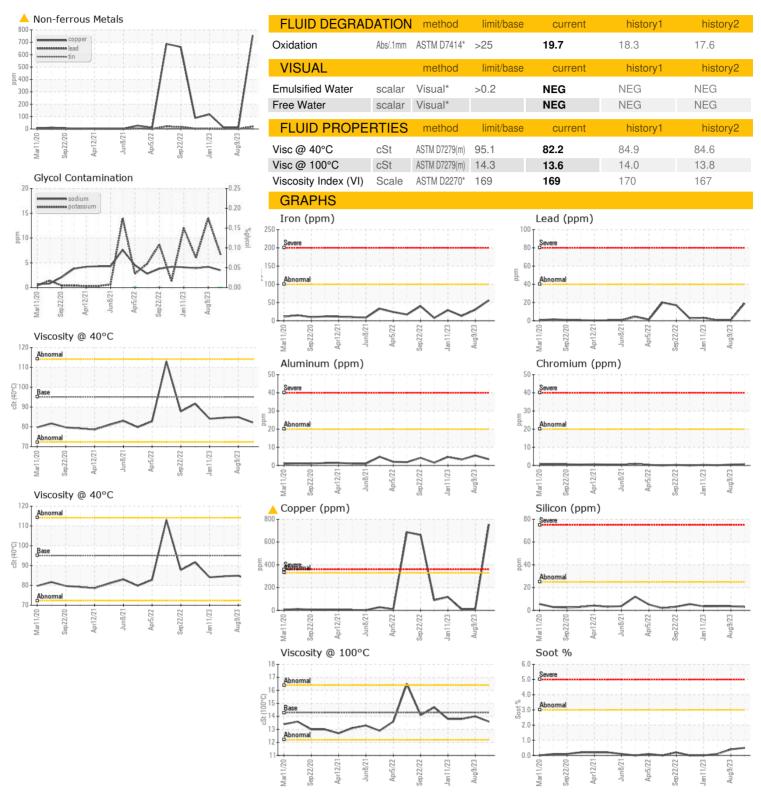
Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

TR)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0082676	PC0078256	PC0075295
Sample Date		Client Info		09 Jan 2024	09 Aug 2023	24 Apr 2023
Machine Age	hrs	Client Info		17940	17138	16970
Oil Age	hrs	Client Info		250	250	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
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
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	56	30	13
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	6	3
Lead	ppm	ASTM D5185(m)	>40	19	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<u>^</u> 755	10	10
Tin	ppm	ASTM D5185(m)	>15	1	<1	<1
Antimony	ppm	ASTM D5185(m)	7.0	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	27	35	47
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	57	56	57
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1160	1075	1092	1063
Calcium	ppm	ASTM D5185(m)	820	833	818	843
Phosphorus	ppm	ASTM D5185(m)	1160	984	1035	1046
Zinc	ppm	ASTM D5185(m)	1260	1145	1168	1140
Sulfur	ppm	ASTM D5185(m)	3000	2676	2725	2774
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	4	4
Sodium	ppm	ASTM D5185(m)		4	4	4
Potassium	ppm	ASTM D5185(m)	>20	7	14	6
Glycol	%	ASTM D7922*		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.5	0.4	0.1
Nituatian	Abs/cm	ASTM D7624*	. 20		0.0	0.0
Nitration	ADS/CITI	A511VI D7024	>20	10.2	8.8	8.0



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: 02611390 : 5720485

: Wear Check - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations : PC0082676 Recieved : 26 Jan 2024 Diagnosed

: 30 Jan 2024 Diagnostician : Bill Quesnel

Test Package : MOB 1 (Additional Tests: GLYCOL, 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. Validity of results and interpretation are based on the sample and information as supplied.

151 Ram Forest Rd, Stouffville, ON CA L4A 2G8

Contact: Shannon Abbott sabbott@gipi.com

T: (905)750-5900