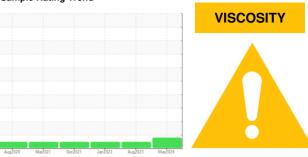


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

RST1052

Component

Diesel Engine

PETRO CANADA DURON UHP 5W40 (6 LTR)

DIAGNOSIS

Recommendation

Oil and filter 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

Fuel content negligible. There is no indication of any contamination in the oil.

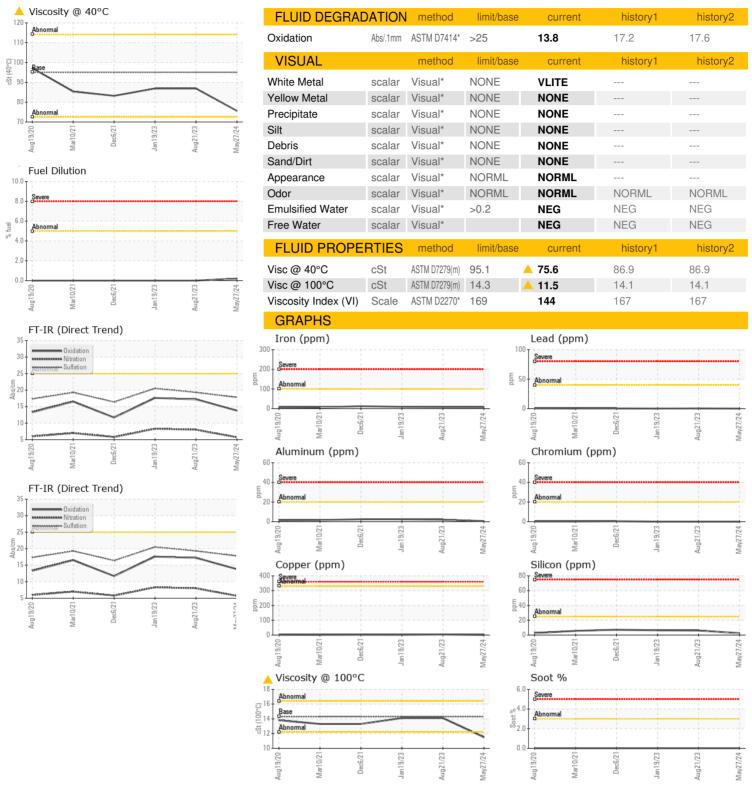
Fluid Condition

Viscosity of sample indicates oil is within SAE 10W30 range, advise investigate. The condition of the oil is acceptable for the time in service.

1)		Aug2020	Mar2021 Dec2021	Jan2023 Aug2023	May2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0081606	PC0062397	PC0071445
Sample Date		Client Info		27 May 2024	21 Aug 2023	19 Jan 2023
Machine Age	hrs	Client Info		3894	3441	3034
Oil Age	hrs	Client Info		0	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	8	8	9
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	2	2
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	<1	4	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
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	8	46	49
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	59	60	58
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1160	962	1070	1100
Calcium	ppm	ASTM D5185(m)	820	1024	767	879
Phosphorus	ppm	ASTM D5185(m)	1160	1015	949	1123
Zinc	ppm	ASTM D5185(m)	1260	1169	1143	1246
Sulfur	ppm	ASTM D5185(m)	3000	2585	2744	3299
Lithium						
LIUIIUIII	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN		ASTM D5185(m) method	limit/base	<1 current	<1 history1	<1 history2
CONTAMINAN Silicon		method ASTM D5185(m)	limit/base >25	current 2	history1	history2
CONTAMINAN Silicon Sodium	ITS	method ASTM D5185(m) ASTM D5185(m)		current	history1 6 4	history2
CONTAMINAN Silicon Sodium Potassium	ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		current 2 2 <1	history1 6 4 <1	history2 6 5 0
CONTAMINAN Silicon Sodium	ppm	method ASTM D5185(m) ASTM D5185(m)	>25	current 2 2	history1 6 4	history2 6 5
CONTAMINAN Silicon Sodium Potassium	ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25 >20	current 2 2 <1	history1 6 4 <1	history2 6 5 0
CONTAMINAN Silicon Sodium Potassium Fuel	ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593*	>25 >20 >5	current 2 2 <1 0.2	history1 6 4 <1 <1.0	history2 6 5 0 <1.0
CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593* method	>25 >20 >5 limit/base	current 2 2 <1 0.2 current	history1 6 4 <1 <1.0 history1	history2 6 5 0 <1.0 history2



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02640706 Unique Number : 5789868

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations : PC0081606 Received : 10 Jun 2024

Tested : 11 Jun 2024 Diagnosed

: 11 Jun 2024 - Kevin Marson Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI, Visual)

Stouffville, ON **CA L4A 2G8** Contact: Shannon Abbott sabbott@gipi.com

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.

T: (905)750-5900 Validity of results and interpretation are based on the sample and information as supplied. F: