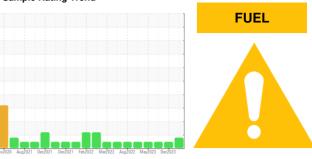


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

CR256

Component

Diesel Engine

PETRO CANADA DURON UHP 5W40 (28 LTR)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

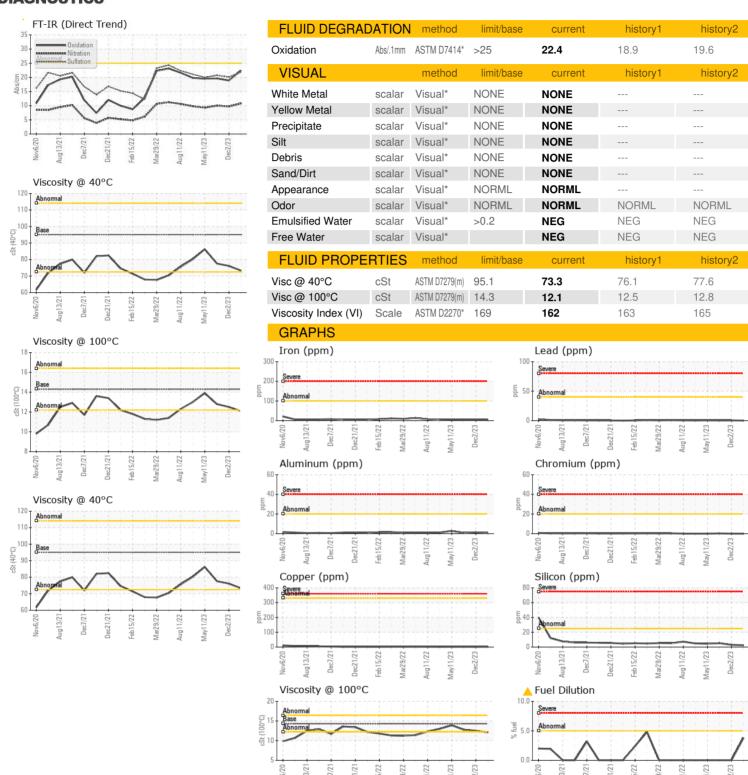
Fluid Condition

The condition of the oil is acceptable for the time in service.

TR)	lovZ020 AugZ021 DecZ021 DecZ021 Feb2022 MarZ022 AugZ022 MarZ023 DecZ023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PC0089312	PC0078375	PC0078553	
Sample Date		Client Info		20 Apr 2024	02 Dec 2023	14 Jul 2023	
Machine Age	hrs	Client Info		8727	10721	0	
Oil Age	hrs	Client Info		0	250	0	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				MARGINAL	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	5	5	5	
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1	
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	<1	1	<1	
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1	
Copper	ppm	ASTM D5185(m)	>330	1	1	2	
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	29	21	28	
Barium	ppm	ASTM D5185(m)	0	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	65	55	51	53	
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1	
Magnesium	ppm	ASTM D5185(m)	1160	1039	980	1025	
Calcium	ppm	ASTM D5185(m)	820	783	744	765	
Phosphorus	ppm	ASTM D5185(m)	1160	931	933	1011	
Zinc	ppm	ASTM D5185(m)	1260	1096	1082	1118	
Sulfur	ppm	ASTM D5185(m)	3000	2590	2666	2658	
Lithium	ppm	ASTM D5185(m)		<1	<1	<1	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	2	3	5	
Sodium	ppm	ASTM D5185(m)		3	2	3	
Potassium	ppm	ASTM D5185(m)	>20	1	2	<1	
Fuel	%	ASTM D7593*	>5	△ 3.8	<1.0	<1.0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0	0.1	0.1	
Nitration	Abs/cm	ASTM D7624*	>20	10.8	9.7	10.0	
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.8	20.1	20.7	



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: PC0089312 Lab Number : 02631263 Unique Number : 5772416

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations Received : 25 Apr 2024

Tested : 26 Apr 2024 Diagnosed

: 26 Apr 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI, Visual)

151 Ram Forest Rd, Stouffville, ON **CA L4A 2G8** Contact: Shannon Abbott

sabbott@gipi.com

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: