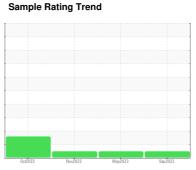


OIL ANALYSIS REPORT



NORMAL



Machine Id 123058

Component **Diesel Engine**

PETRO CANADA DURON HP 15W40 (--- G

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

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

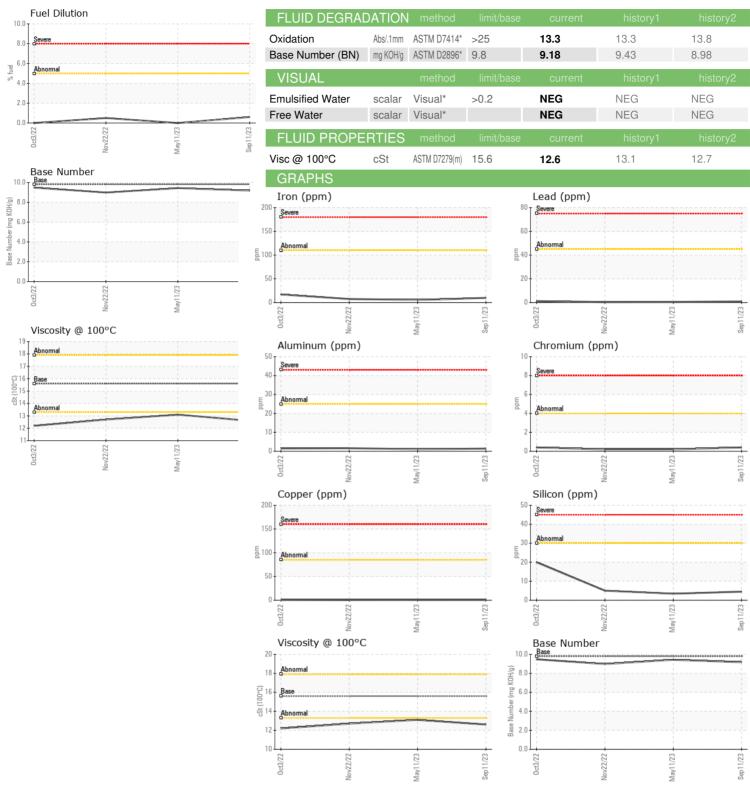
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

ıL)		0ct202	2 Nov2022	May2023 S	pp 2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091614	GFL0077621	GFL0063698
Sample Date		Client Info		11 Sep 2023	11 May 2023	22 Nov 2022
Machine Age	kms	Client Info		202215	1976597	10267
Oil Age	kms	Client Info		0	0	541
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>110	10	5	7
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Γitanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	1	1	2
_ead	ppm	ASTM D5185(m)	>45	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>85	<1	<1	<1
Γin	ppm	ASTM D5185(m)	>4	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
/anadium	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)	0	4	4	6
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	58	60
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	982	941	967
Calcium	ppm	ASTM D5185(m)	1070	1078	1077	1150
Phosphorus	ppm	ASTM D5185(m)	1150	1109	1064	1108
Zinc	ppm	ASTM D5185(m)	1270	1196	1130	1220
Sulfur	ppm	ASTM D5185(m)	2060	2692	2645	2772
_ithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	4	3	5
Sodium	ppm	ASTM D5185(m)		1	1	2
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
-uel	%	ASTM D7593*	>5	0.6	<1.0	0.5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.5	0.2	0.2
Vitration	Abs/cm	ASTM D7624*	>20	5.4	5.1	5.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.8	18.1	19.5



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County : 02583458

: GFL0091614 : 5644523

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

Received Diagnosed

Diagnostician : Wes Davis

: 20 Sep 2023

: 19 Sep 2023 220 Carmek Blvd Rocky View County, AB

Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) 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.

Contact: GFL Calgary calgarymaintenance@gflenv.com T:

Report Id: GFL550 [WCAMIS] 02583458 (Generated: 09/20/2023 09:28:56) Rev: 1

Contact/Location: GFL Calgary - GFL550

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F: (403)369-6163