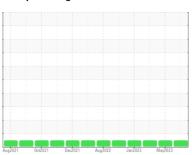


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



DRUMRIGHT Machine Id Unit 01 DB120101E

Diesel Engine

PETRO CANADA DURON MONOGRADE HD 40W (250 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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.

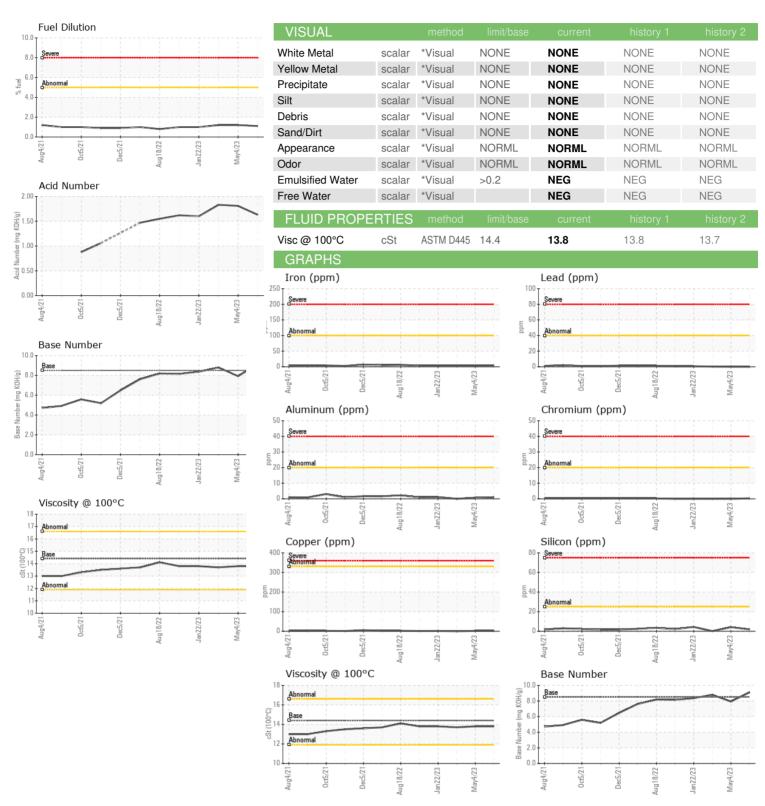
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

	Aug2021 0c2021 0c2021 Aug2022 Jan2023 May2023					
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0052190	PCA0052182	PCA0052197
Sample Date		Client Info		04 Jul 2023	04 May 2023	09 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	4	3	3
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	<1	0
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	2	2	0
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		1006	871	864
Calcium	ppm	ASTM D5185m		1137	954	1029
Phosphorus	ppm	ASTM D5185m		1246	976	1096
Zinc	ppm	ASTM D5185m		1478	1132	1255
Sulfur	ppm	ASTM D5185m		4081	2949	3154
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	2	4	<1
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Fuel	%	ASTM D3524	>5	1.1	1.2	1.2
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>2	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	4.0	3.5	3.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	13.2	11.5	13.0
FLUID DEGRAI	OITAC	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	6.9	6.4	6.5
Acid Number (AN)	mg KOH/g	ASTM D8045		1.63	1.81	1.831
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.11	7.92	8.79
(=)	39		-			



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jul 2023 : PCA0052190

: 06 Jul 2023

: 05889763 Diagnosed : 10545573 Diagnostician : Don Baldridge

Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Magellan Midstream LP - Drumright

55200 South Hwy 16 Drumright, OK US 74030

Contact: Todd Clark Todd.Clark@magellanlp.com

T: (918)619-3013

Report Id: MAGDRU [WUSCAR] 05889763 (Generated: 07/06/2023 22:24:52) Rev: 1

Contact/Location: Todd Clark - MAGDRU