

PROBLEM SUMMARY

Sample Rating Trend

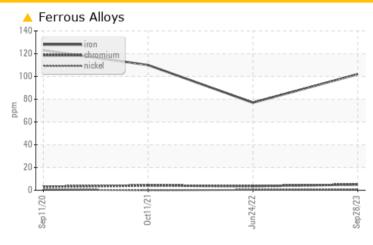


Machine Id **2144**

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Iron	ppm	ASTM D5185m	>100	102	77	110		
Base Number (BN)	ma KOH/a	ASTM D2896		1.9	A 3.6	A 2.4		

Customer Id: MIDFAR Sample No.: PCA0088618 Lab Number: 06013683 Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

24 Jun 2022 Diag: Jonathan Hester

DEGRADATION



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN level is low. The condition of the oil is acceptable for the time in service.



11 Oct 2021 Diag: Jonathan Hester

DEGRADATION



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN level is low. The condition of the oil is acceptable for the time in service.

view report

11 Sep 2020 Diag: Don Baldridge

DIRT



No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 2144 Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

▲ Fluid Condition

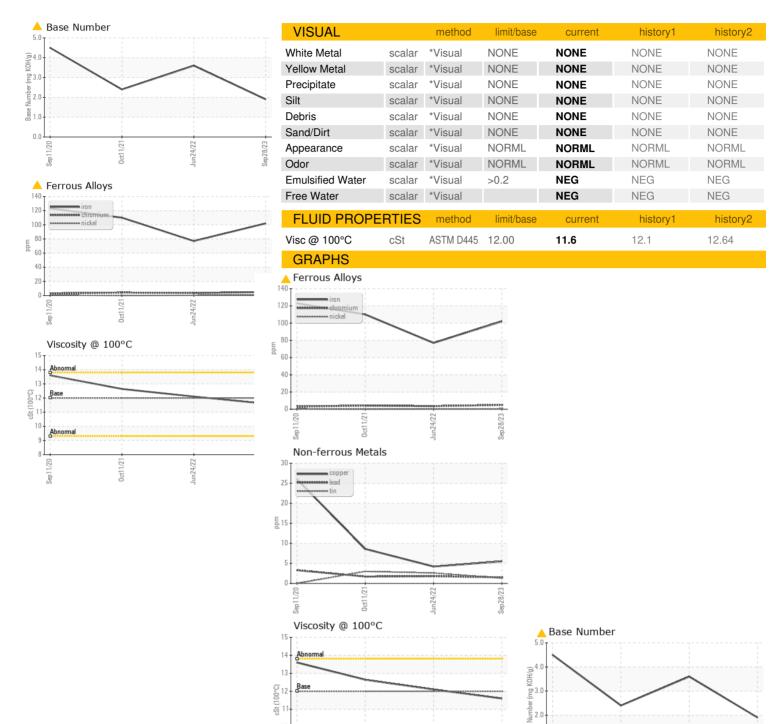
The BN level is low. The oil is no longer serviceable.

GAL)		Sep2020	0 0ct2021	Jun2022 St	p2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0088618	PCA0051918	PCA0051896
Sample Date		Client Info		28 Sep 2023	24 Jun 2022	11 Oct 2021
Machine Age	mls	Client Info		79357	62052	44101
Oil Age	mls	Client Info		79357	17951	12494
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	102	77	110
Chromium	ppm	ASTM D5185m	>20	5	4	4
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	17	11	12
Lead	ppm	ASTM D5185m	>40	2	2	2
Copper	ppm	ASTM D5185m	>330	6	4	9
Tin	ppm	ASTM D5185m	>15	1	3	3
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	5	6
Barium	ppm	ASTM D5185m	0	9	0	0
Molybdenum	ppm	ASTM D5185m	50	67	65	61
Manganese	ppm	ASTM D5185m	0	2	2	4
Magnesium	ppm	ASTM D5185m	950	971	1001	972
Calcium	ppm	ASTM D5185m	1050	1187	1264	1168
Phosphorus	ppm	ASTM D5185m	995	1029	1023	1028
Zinc	ppm	ASTM D5185m	1180	1285	1278	1250
Sulfur	ppm	ASTM D5185m	2600	3153	3402	2499
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	17	9	18
Sodium	ppm	ASTM D5185m		9	10	10
Potassium	ppm	ASTM D5185m	>20	14	5	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	1.2	1.3
Nitration	Abs/cm	*ASTM D7624	>20	16.9	17.5	17.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	36.8	36.1	38.2
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	45.5	40.9	44.8
Base Number (BN)	mg KOH/g	ASTM D2896		1.9	△ 3.6	<u>^</u> 2.4
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Contact/Location: FRANK DIETZ - MIDFAR



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number **Unique Number** : 10752827 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : PCA0088618 : 06013683

Diagnosed Diagnostician

Jun24/22

: 21 Nov 2023 : 23 Nov 2023 : Don Baldridge

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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)

MIDWEST MOTOR EXPRESS

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Contact/Location: FRANK DIETZ - MIDFAR

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