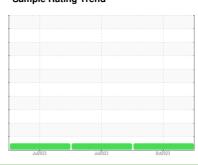


# **OIL ANALYSIS REPORT**

Sample Rating Trend







# Machine Id 60AE Component Diesel Engine

# PETRO CANADA DURON EXTRA 15W40 (9 GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

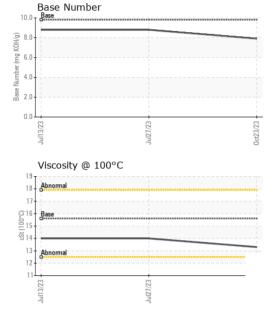
## **Fluid Condition**

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

9 GAL)		Ju	12023	Jul2023 Oct20	23	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0105998	PCA0095295	PCA0098094
Sample Date		Client Info		23 Oct 2023	27 Jul 2023	13 Jul 2023
Machine Age	hrs	Client Info		7922	7433	7131
Oil Age	hrs	Client Info		489	302	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	4	4	5
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m		2	3	3
Lead	ppm	ASTM D5185m	>40	- <1	0	<1
Copper	ppm	ASTM D5185m		1	2	2
Tin	ppm	ASTM D5185m	>15	- <1	<1	<1
Vanadium	ppm	ASTM D5185m	>10	0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	<1	2
Barium	ppm		0	4	0	0
Molybdenum	ppm	ASTM D5185m	60	61	59	60
Manganese	ppm		0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	892	928	919
Calcium	ppm	ASTM D5185m	1070	1040	1039	1063
Phosphorus	ppm	ASTM D5185m	1150	1028	985	989
Zinc	ppm	ASTM D5185m	1270	1172	1212	1206
Sulfur	ppm	ASTM D5185m	2150	3164	3135	3110
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	3
Sodium	ppm	ASTM D5185m		3	6	6
Potassium	ppm	ASTM D5185m	>20	3	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.2	6.2	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	18.6	18.5
FLUID DEGRADATION method limit/base current history1 history2						history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	14.1	14.1
Base Number (BN)	mg KOH/g	ASTM D2896		7.9	8.8	8.8
Dage Hamber (DIN)	my Normy	7.0 TW D2000	0.0	7.0	0.0	0.0



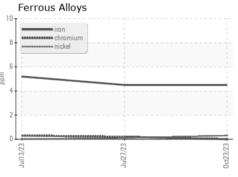
## **OIL ANALYSIS REPORT**

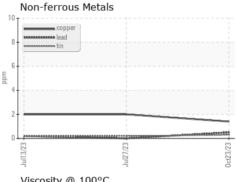


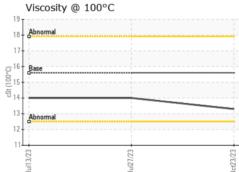
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

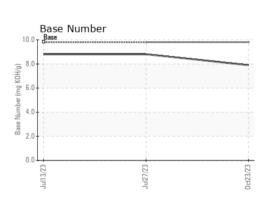
		method			riistory i	History2
Visc @ 100°C	cSt	ASTM D445	15.6	13.3	14.0	14.0

## **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10723331 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0105998 : 05994971

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received Diagnosed

: 31 Oct 2023

: 01 Nov 2023 Diagnostician : Wes Davis

848 HWY 264 E BETHEL HEIGHTS, AR US 72764

Contact: JAMIE HAYWORTH jhayworth@lrsrecycles.com

LRS - BETHEL HEIGHTS (NWA AR)

\* - 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) T: (479)878-1384