

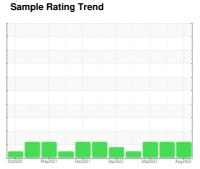
## **OIL ANALYSIS REPORT**



# KEMP QUARRIES / PRYOR STONE [65796] **ÖHT110**

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- GAL)





### **DIAGNOSIS**

#### Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: Pm2 performed. All oil samples taken. Engine oil, transmission oil, and all filters changed.)

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of fuel present in the

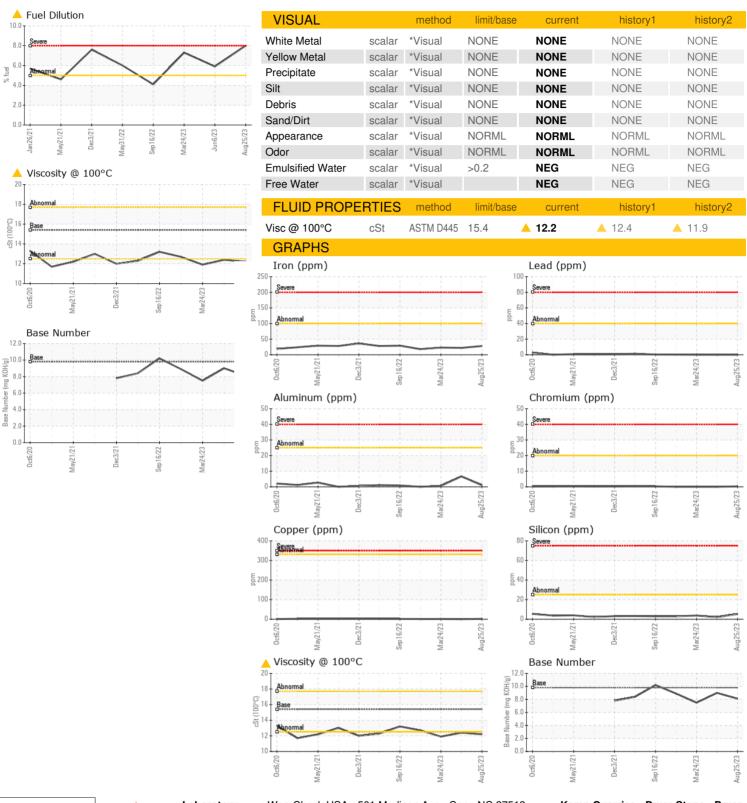
#### ▲ Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

(	J.: 1_,	0ct2020	May2021 Dec2021	Sep 2022 Mar 2023	Aug2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0084252	PCA0083989	PCA0083921
Sample Date		Client Info		25 Aug 2023	06 Jun 2023	24 Mar 2023
Machine Age	hrs	Client Info		28083	27575	27095
Oil Age	hrs	Client Info		508	480	515
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	28	22	23
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		1	7	<1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m		2	<1	1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	61	59
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	983	1052	936
Calcium	ppm	ASTM D5185m	1070	1117	1167	1051
Phosphorus	ppm	ASTM D5185m	1150	1044	1095	984
Zinc Sulfur	ppm	ASTM D5185m	1270 2060	1248 3575	1397	1247
	ppm	ASTM D5185m		3575	3905	3235
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	2	4
Sodium	ppm	ASTM D5185m		2	2	<1
Potassium		10TH F - :	0.0	_	•	4
	ppm	ASTM D5185m	>20	0	0	<1
Fuel		ASTM D5185m ASTM D3524	>20 >5	0 <u>^</u> 8.0	0 <b>^</b> 5.9	<1 ^ 7.3
Fuel INFRA-RED	ppm					
	ppm	ASTM D3524	>5	▲ 8.0	▲ 5.9	<b>▲</b> 7.3
INFRA-RED	ppm %	ASTM D3524 method	>5 limit/base	▲ 8.0 current	▲ 5.9 history1	▲ 7.3 history2
INFRA-RED Soot %	ppm %	ASTM D3524  method  *ASTM D7844	>5 limit/base >3	8.0 current 0.8	▲ 5.9  history1  0.8	↑ 7.3  history2  0.7
INFRA-RED Soot % Nitration	% % Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	>5 limit/base >3 >20	▲ 8.0  current  0.8  9.0	history1  0.8  10.0	↑ 7.3  history2  0.7  9.4
INFRA-RED Soot % Nitration Sulfation	% % Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	>5 limit/base >3 >20 >30	▲ 8.0  current  0.8  9.0  19.3	history1  0.8  10.0  20.0	<ul><li>↑ 7.3</li><li>history2</li><li>0.7</li><li>9.4</li><li>17.7</li></ul>
INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE	% % Abs/cm Abs/.1mm	method  *ASTM D7844  *ASTM D7624  *ASTM D7415  method  *ASTM D7414	>5 limit/base >3 >20 >30 limit/base	▲ 8.0  current  0.8  9.0  19.3  current	history1  0.8  10.0  20.0  history1	↑ 7.3  history2  0.7  9.4  17.7  history2



### **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number

**Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : PCA0084252

: 05941992 Diagnosed : 10632604

: 07 Sep 2023 Diagnostician : Don Baldridge Test Package : MOB 1 (Additional Tests: PercentFuel, TBN)

: 05 Sep 2023

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)

Kemp Quarries - Pryor Stone - Pryor

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Contact: pryor@pryorstone.com

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F: