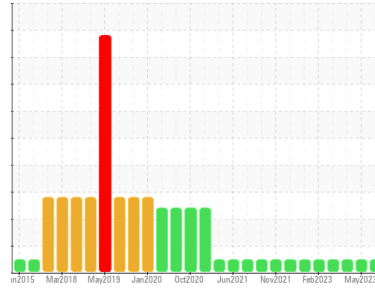


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**KEMP QUARRIES / PRYOR STONE [66326]**  
 Machine Id  
**WP047**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor. ( Customer Sample Comment: PM performed. Engine oil sample taken. Engine oil, and all filters changed. )

**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.

**SAMPLE INFORMATION** method limit/base current history1 history2

Sample Number	Client Info	<b>PCA0084055</b>	PCA0083962	PCA0086210
Sample Date	Client Info	<b>07 Aug 2023</b>	11 May 2023	18 Apr 2023
Machine Age	hrs	<b>2873</b>	2576	2313
Oil Age	hrs	<b>297</b>	263	370
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

**CONTAMINATION** method limit/base current history1 history2

Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	NEG

**WEAR METALS** method limit/base current history1 history2

Iron	ppm	ASTM D5185m	>100	<b>16</b>	12	14
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	<1	<1
Lead	ppm	ASTM D5185m	>40	<b>3</b>	3	<1
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

**ADDITIVES** method limit/base current history1 history2

Boron	ppm	ASTM D5185m	0	<b>2</b>	<1	<1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>65</b>	61	61
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	1010	<b>1064</b>	984	977
Calcium	ppm	ASTM D5185m	1070	<b>1186</b>	1164	1073
Phosphorus	ppm	ASTM D5185m	1150	<b>1117</b>	1031	987
Zinc	ppm	ASTM D5185m	1270	<b>1375</b>	1275	1273
Sulfur	ppm	ASTM D5185m	2060	<b>3974</b>	3786	3287

**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	3	2
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	<1
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1

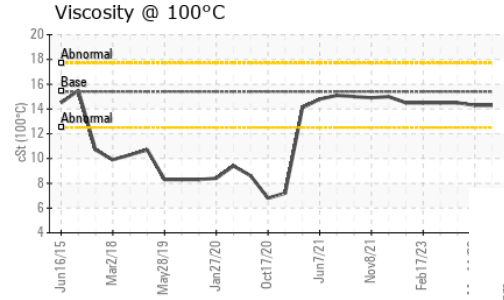
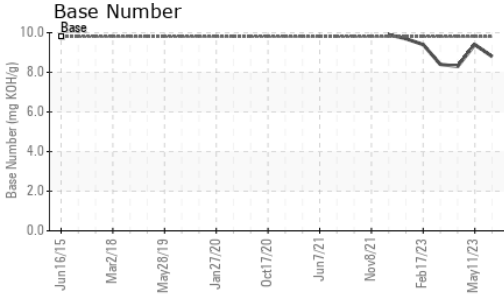
**INFRA-RED** method limit/base current history1 history2

Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.4</b>	6.0	5.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.4</b>	18.4	16.5

**FLUID DEGRADATION** method limit/base current history1 history2

Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.2</b>	14.1	13.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.8</b>	9.4	8.3

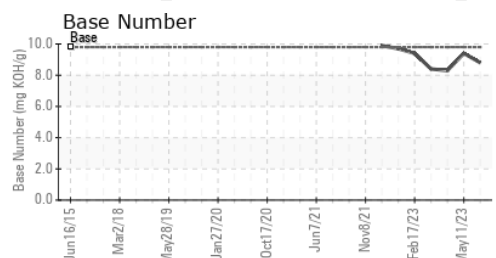
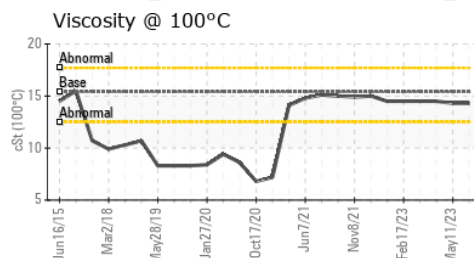
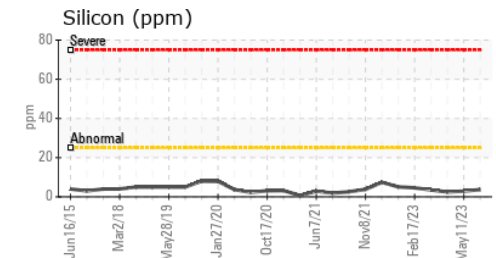
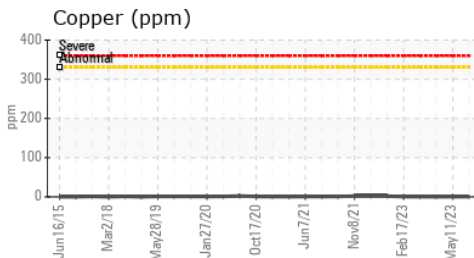
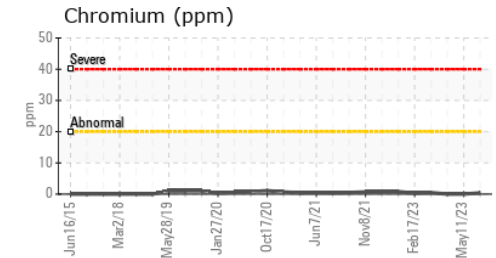
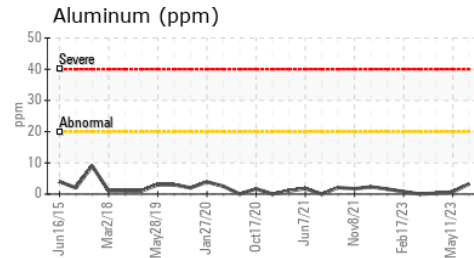
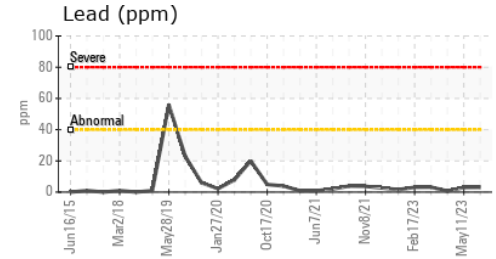
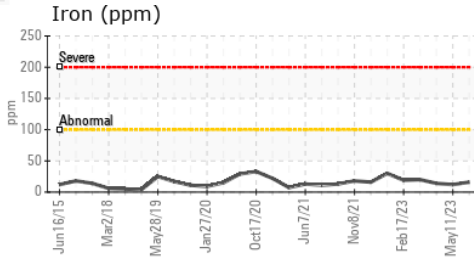
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.3</b>	14.3	14.5

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0084055 **Received** : 25 Aug 2023  
**Lab Number** : 05935203 **Diagnosed** : 28 Aug 2023  
**Unique Number** : 10620474 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**Kemp Quarries - Pryor Stone - Pryor**  
 1050 E 520 Rd  
 Pryor, OK  
 US 74361  
 Contact:  
 pryor@pryorstone.com

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)

T:  
F: