



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**KEMP QUARRIES / PRYOR STONE [68210]**  
Machine Id  
**OHT066**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. ( Customer Sample Comment: Pm4 performed. All oil samples taken. All oils, and all filters changed. )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0086281</b>	PCA0084302	PCA0084017
Sample Date		Client Info		<b>09 Feb 2024</b>	02 Nov 2023	22 May 2023
Machine Age	hrs	Client Info		<b>64419</b>	63909	63506
Oil Age	hrs	Client Info		<b>510</b>	403	533
Filter Age	hrs	Client Info		<b>510</b>	403	533
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>59</b>	37	44
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	<1	0
Nickel	ppm	ASTM D5185m	>2	<b>2</b>	1	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	1	7
Lead	ppm	ASTM D5185m	>40	<b>32</b>	9	16
Copper	ppm	ASTM D5185m	>330	<b>6</b>	3	3
Tin	ppm	ASTM D5185m	>15	<b>2</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

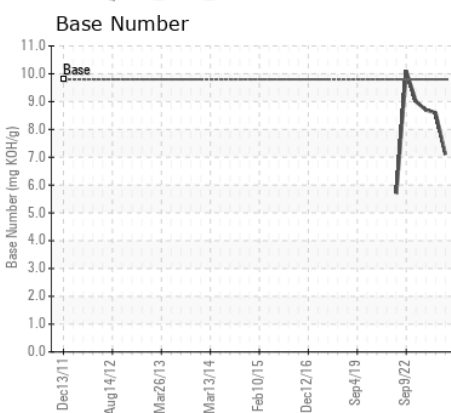
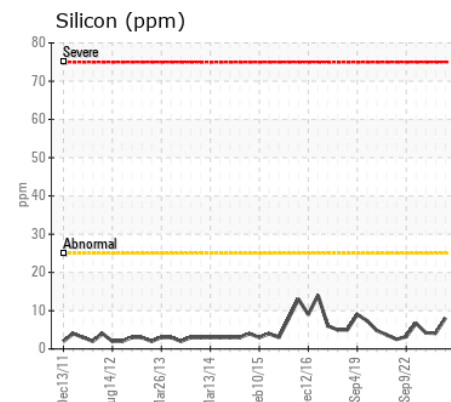
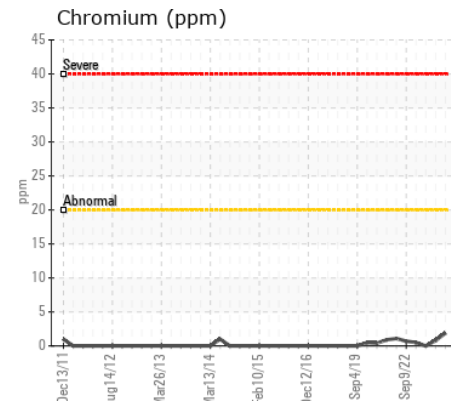
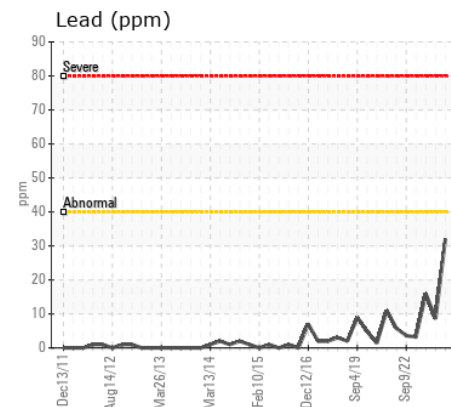
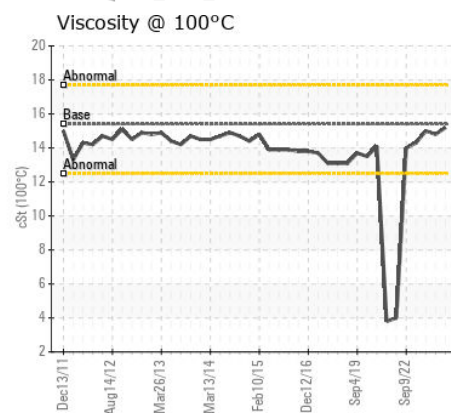
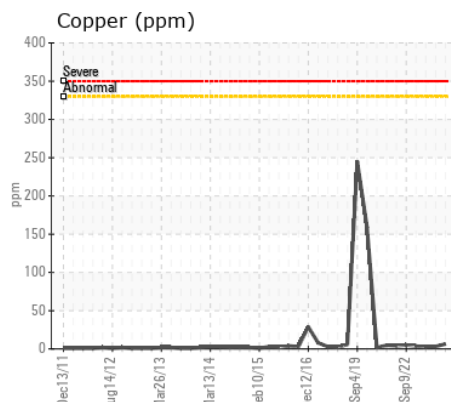
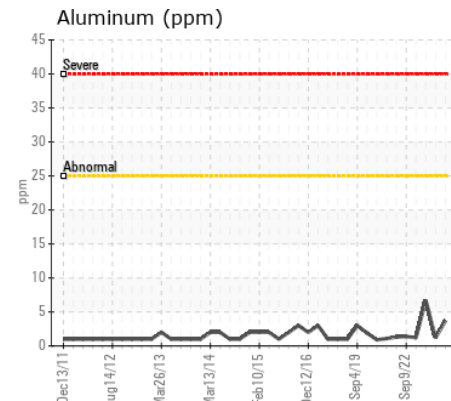
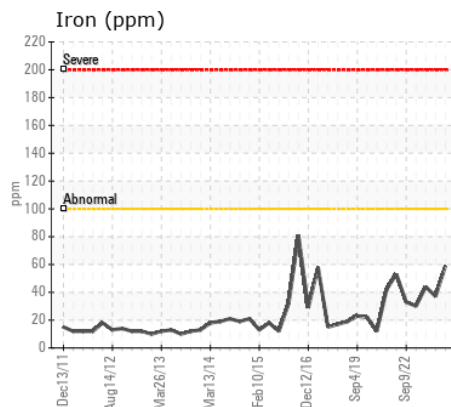
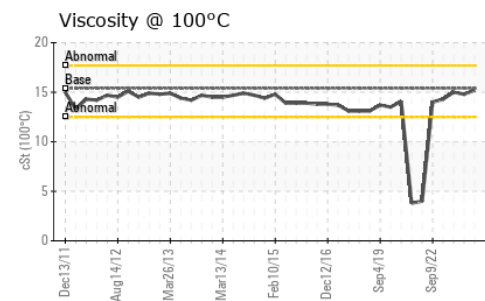
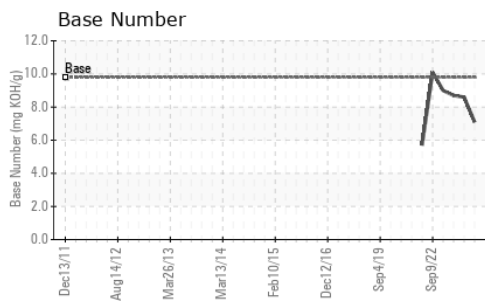
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>1.8</b>	1.3	1.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.5</b>	11.8	13.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>27.9</b>	24.5	25.4
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**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.

Sodium	ppm	ASTM D5185m		<b>39</b>	23	39
Boron	ppm	ASTM D5185m	0	<b>2</b>	1	2
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>68</b>	66	70
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	1010	<b>1042</b>	992	1137
Calcium	ppm	ASTM D5185m	1070	<b>1190</b>	1106	1265
Phosphorus	ppm	ASTM D5185m	1150	<b>1131</b>	1082	1158
Zinc	ppm	ASTM D5185m	1270	<b>1367</b>	1365	1487
Sulfur	ppm	ASTM D5185m	2060	<b>2968</b>	3089	3981
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>26.7</b>	22.0	24.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>7.1</b>	8.6	8.7
Visc @ 100°C	cSt	ASTM D445	15.4	<b>15.2</b>	14.8	15.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0086281 **Received** : 26 Feb 2024  
**Lab Number** : 06100657 **Tested** : 27 Feb 2024  
**Unique Number** : 10898887 **Diagnosed** : 28 Feb 2024 - Sean Felton  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**Kemp Quarries - Pryor Stone - Pryor**  
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 Pryor, OK  
 US 74361  
 Contact:  
 pryor@pryorstone.com  
 T:  
 F:

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)