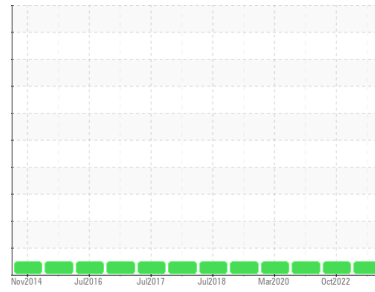


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**KEMP QUARRIES / PRYOR STONE**  
 Machine Id  
**CONV1115**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON HP 15W40 (--- GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Changed fluid and filters )

#### 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>PCA0109222</b>	PCA0062449	PCA0038315
Sample Date	Client Info		<b>02 Apr 2024</b>	04 Oct 2022	24 Apr 2021
Machine Age	hrs	Client Info	<b>9852</b>	9595	8276
Oil Age	hrs	Client Info	<b>9852</b>	9595	0
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
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	<b>25</b>	8	36
Chromium	ppm	ASTM D5185m >20	<b>4</b>	<1	3
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>5</b>	1	0
Lead	ppm	ASTM D5185m >40	<b>4</b>	<1	4
Copper	ppm	ASTM D5185m >30	<b>5</b>	<1	19
Tin	ppm	ASTM D5185m >15	<b>2</b>	<1	2
Antimony	ppm	ASTM D5185m	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>2</b>	3	8
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>70</b>	61	66
Manganese	ppm	ASTM D5185m	<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>1210</b>	989	1013
Calcium	ppm	ASTM D5185m	<b>1742</b>	1115	1254
Phosphorus	ppm	ASTM D5185m	<b>1460</b>	1004	1064
Zinc	ppm	ASTM D5185m	<b>1721</b>	1288	1267
Sulfur	ppm	ASTM D5185m	<b>4577</b>	3512	2737

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>22</b>	4	10
Sodium	ppm	ASTM D5185m	<b>7</b>	2	3
Potassium	ppm	ASTM D5185m >20	<b>4</b>	<1	<1

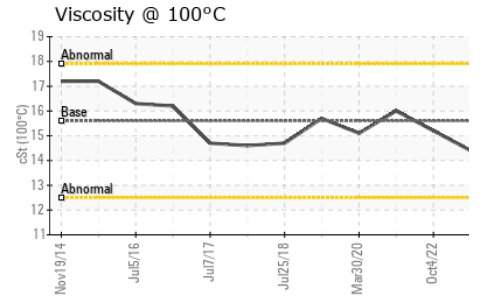
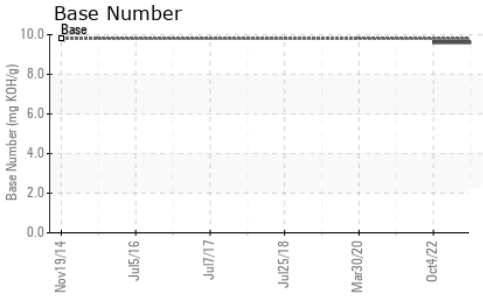
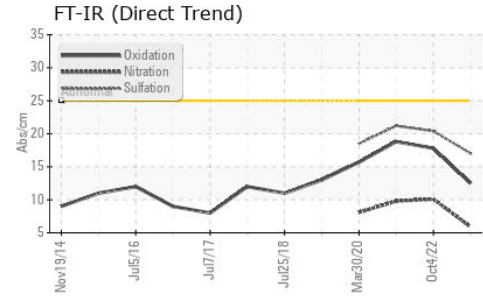
### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.1</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624 >20	<b>5.9</b>	10.1	9.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>17.0</b>	20.4	21.2

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>12.5</b>	17.8	18.8
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>9.6</b>	9.6	---

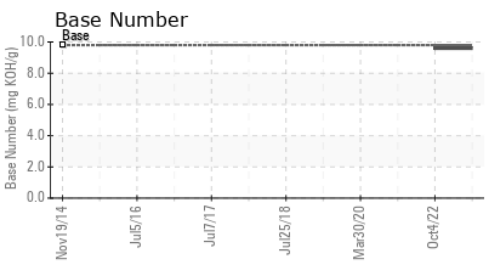
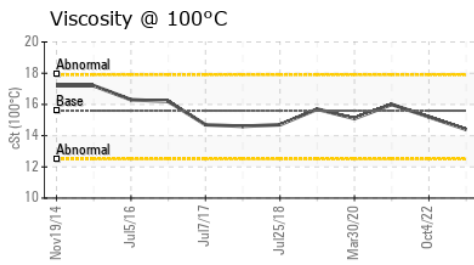
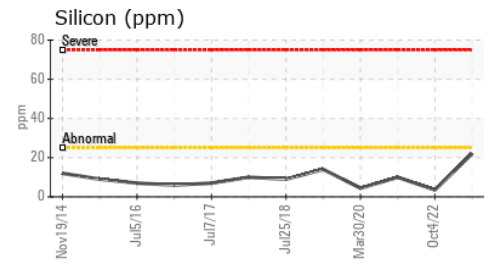
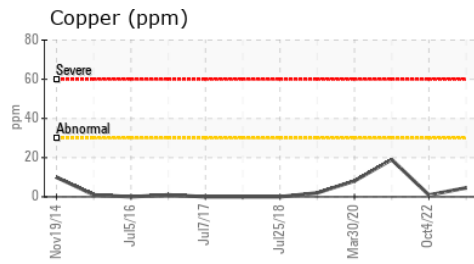
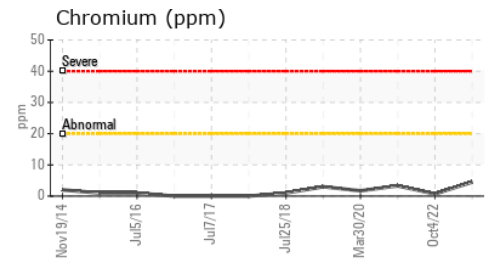
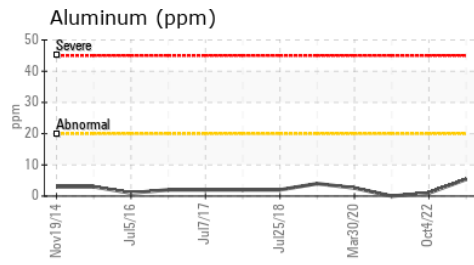
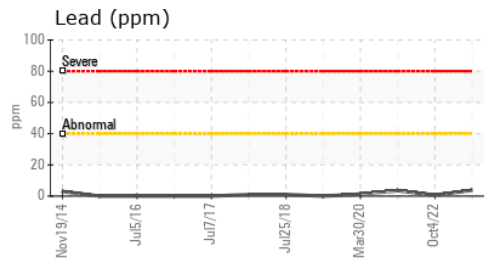
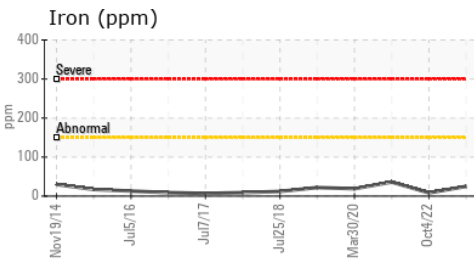
# OIL ANALYSIS REPORT



PARAMETER	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	15.6	<b>14.4</b>	15.2	16.0

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109222  
**Lab Number** : 06148403  
**Unique Number** : 10978481  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**Received** : 15 Apr 2024  
**Tested** : 16 Apr 2024  
**Diagnosed** : 17 Apr 2024 - Sean Felton

**Kemp Quarries - Benton County Stone - Stillwell**  
 463917 Highway 100  
 Bunch, OK  
 US 74931  
 Contact:  
 stilwell@bentoncountystone.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)