

# **OIL ANALYSIS REPORT**

# KEMP QUARRIES / KEMP STONE - FAIRLAND [62857] CRN014

Component Diesel Engine

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

## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: PM-1 changed filters and fluid  $\ensuremath{\mathsf{)}}$ 

## 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.

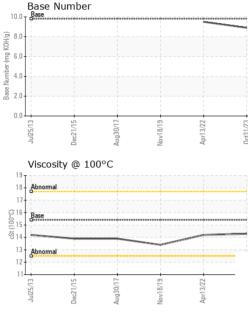
AIRLAND [6	2857]					
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AL)		Jui2013	Dec2015 Aug201	7 Nov2019 Apr2022	Oct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0087051	PCA0034290	PCA3626107
Sample Date		Client Info		31 Oct 2023	13 Apr 2022	18 Nov 2019
Machine Age	hrs	Client Info		1374	1150	324
Oil Age	hrs	Client Info		1374	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	0.0
WEAR METAL	S	method	limit/base	current	history1	history2
Iron Chromium	ppm	ASTM D5185m ASTM D5185m	>100 >20	62 5	70 3	50 2
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m	>4	0 <1	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm ppm	ASTM D5185m	>20	2	2	3
Lead		ASTM D5185m	>40	3	2	1
Copper	ppm ppm	ASTM D5185m	>330	6	6	3
Tin		ASTM D5185m	>15	11	11	5
Vanadium	ppm ppm	ASTM D5185m	>15	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	lelerri	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	13	49
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m ASTM D5185m	60	59	62	27 0
Manganese Magnesium	ppm	ASTM D5185m	0 1010	<1	<1 988	483
Calcium	ppm	ASTM D5185m		947 1072	1185	1388
Phosphorus	ppm	ASTM D5185m	1070 1150	1073 1043	1103	752
Zinc	ppm ppm	ASTM D5185m	1270	1302	1199	713
Sulfur	ppm	ASTM D5185m	2060	3122	2792	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	9	11
Sodium	ppm	ASTM D5185m	- 10	7	15	23
Potassium	ppm	ASTM D5185m	>20	13	31	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.8	0.9
Nitration	Abs/cm	*ASTM D7624		8.0	10.3	
Sulfation	Abs/.1mm	*ASTM D7415		19.2	21.2	
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FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
FLUID DEGRAD	DATION Abs/.1mm	*ASTM D7414		current 14.8	history1 17.4	nistory2 2

Sample Rating Trend

NORMAL



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Certificate L2367

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