

## **OIL ANALYSIS REPORT**

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

WEAR METALS

Oil Age

Fuel

Water

Glycol

Iron

Chromium

Nickel

Silver

Titanium

Phosphorus

ppm

ASTM D5185m

### KEMP QUARRIES / BCS - STILLWELL [69848] **WP065** Component

**Diesel Engine** 

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

#### DIAGNOSIS

#### Recommendation

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

#### Wear

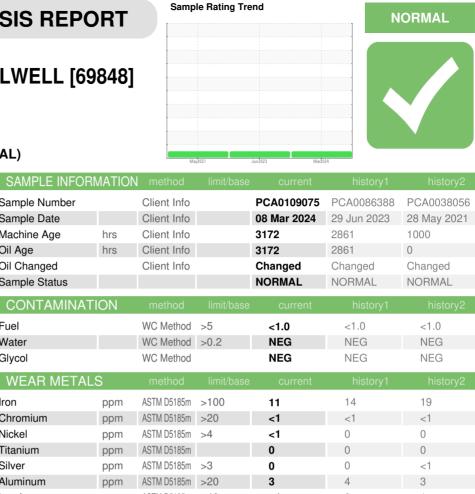
All component wear rates are normal.

#### 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.



Aluminum	ppm	ASTM D5185m	>20	3	4	3
Lead	ppm	ASTM D5185m	>40	<1	0	1
Copper	ppm	ASTM D5185m	>330	1	1	2
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base 0	current <1	history1 2	history2 24
	ppm ppm		0			
Boron		ASTM D5185m	0	<1	2	24
Boron Barium	ppm	ASTM D5185m ASTM D5185m	0 0 60	<1 0	2 0	24 0
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0 60	<1 0 63	2 0 60	24 0 56

Zinc ASTM D5185m 1270 1301 1328 1197 ppm Sulfur ASTM D5185m 2060 3462 3880 2457 ppm CONTAMINANTS 8 Silicon ASTM D5185m >25 7 7 ppm 2 Sodium ASTM D5185m 3 7 ppm 2 Potassium ppm ASTM D5185m >20 <1 <1 

1114

1086

1150

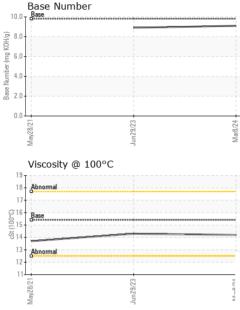
		methou	iiiiii/base	current	TIISTOLA I	nistoryz
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.7
Nitration	Abs/cm	*ASTM D7624	>20	6.7	7.2	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	19.1	20.2
		method	limit/base	current	historv1	history2

FLUID DEGRAL		method	limit/base	current	nistory i	nistory2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	16.2	15.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.1	8.9	

932



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Certificate L2367