

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

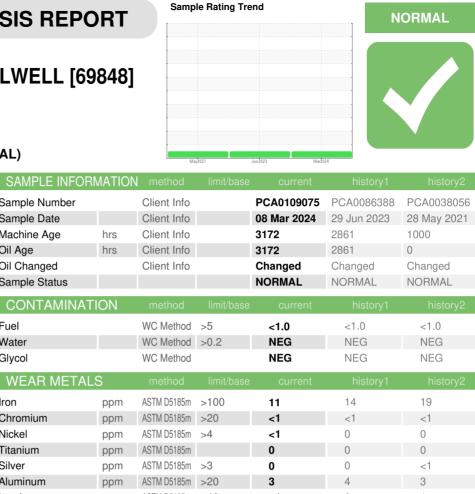
All component wear rates are normal.

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

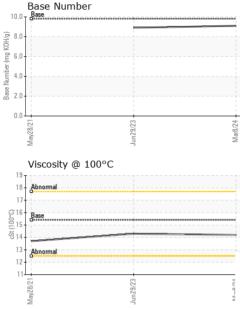
		methou	iiiiii/base	current	TIISTOLA I	nistoryz
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.7
Nitration	Abs/cm	*ASTM D7624	>20	6.7	7.2	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	19.1	20.2
		method	limit/base	current	historv1	history2

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	

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Certificate L2367