

## **OIL ANALYSIS REPORT**

Sample Rating Trend



### KEMP QUARRIES / RIVER VALLEY ARKOMA **GEN029** Component

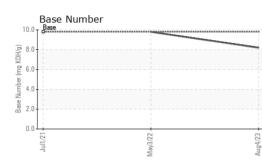
**Diesel Engine** Fluid

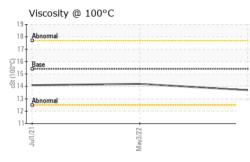
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		PCA0034672	PCA0037736	PCA0038035
Resample at the next service interval to monitor.	Sample Date		Client Info		04 Aug 2023	03 May 2022	01 Jul 2021
Wear	Machine Age	hrs	Client Info		4018	50798	49829
All component wear rates are normal.	Oil Age	hrs	Client Info		50798	0	0
Contamination	Oil Changed		Client Info		Changed	Changed	Changed
There is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
oil.	CONTAMINAT	ION	method	limit/base	current	history1	history2
Fluid Condition	Fuel		WC Method	<u>\</u> 5	<1.0	<1.0	<1.0
The BN result indicates that there is suitable	Glycol		WC Method	20	NEG	NEG	NEG
alkalinity remaining in the oil. The condition of the oil is suitable for further service.	WEAR METAL	c	method	limit/base		history1	history2
	Iron	ppm	ASTM D5185m		20	16	18
	Chromium	ppm	ASTM D5185m		8	12	2
	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	<1	0
	Aluminum	ppm	ASTM D5185m		4	3	2
	Lead	ppm	ASTM D5185m		3	1	2
	Copper	ppm	ASTM D5185m		3	7	10
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Antimony	ppm	ASTM D5185m				0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	1	8	70
	Barium	ppm	ASTM D5185m	0	1	0	0
	Molybdenum	ppm	ASTM D5185m	60	60	56	61
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	969	948	747
	Calcium	ppm	ASTM D5185m	1070	1059	1201	1580
	Phosphorus	ppm	ASTM D5185m	1150	970	1045	982
	Zinc	ppm	ASTM D5185m	1270	1200	1240	1134
	Sulfur	ppm	ASTM D5185m	2060	3010	2642	2713
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	10	9	11
	Sodium	ppm	ASTM D5185m		5	3	4
	Potassium	ppm	ASTM D5185m	>20	2	1	3
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0.2
	Nitration	Abs/cm	*ASTM D7624		5.8	9.7	11.6
	Sulfation	Abs/.1mm	*ASTM D7415		17.3	21.5	23.7
	FLUID DEGRA	DAT <u>IO</u> N	method	limit/base	current	history1	history2
	Ovidation	Ahc/1mm	*AQTM D7/1/	<25	12/	10.1	23.6
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896		13.4 8.2	19.1 9.8	23.6



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Lab Number Unique Number Certificate L2367 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)

Laboratory

Sample No.

T:

F:

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