

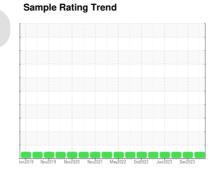
# **OIL ANALYSIS REPORT**



KEMP QUARRIES / BCS - GRAVETTE [69691] **WL127** 

Component **Diesel Engine** 

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



## **NORMAL**



## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Pm2)

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

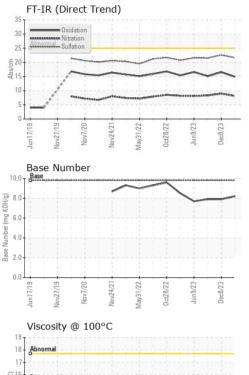
### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

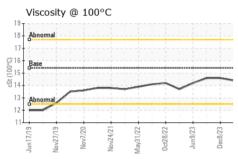
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		PCA0108517	PCA0069872	PCA0086391			
Sample Date		Client Info		01 May 2024	08 Dec 2023	30 Aug 2023			
Machine Age	hrs	Client Info		33781	33270	32702			
Oil Age	hrs	Client Info		511	568	32702			
Oil Changed		Client Info		Changed	Changed	Changed			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINATI	ON	method	limit/base	current	history1	history2			
Fuel		WC Method	>5	<1.0	<1.0	<1.0			
Water		WC Method	>0.2	NEG	NEG	NEG			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METALS	6	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>100	63	87	88			
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>2	<1	<1	0			
Titanium	ppm	ASTM D5185m	>2	<1	<1	0			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>25	2	2	<1			
Lead	ppm	ASTM D5185m	>40	3	4	3			
Copper	ppm	ASTM D5185m	>330	9	10	6			
Tin	ppm	ASTM D5185m	>15	1	<1	<1			
Vanadium	ppm	ASTM D5185m		<1	0	0			
Cadmium	ppm	ASTM D5185m		<1	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	0	<1	1			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	62	63	61			
Manganese	ppm	ASTM D5185m	0	<1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	917	964	966			
Calcium	ppm	ASTM D5185m	1070	1076	1075	1109			
Phosphorus	ppm	ASTM D5185m	1150	983	1048	990			
Zinc	ppm	ASTM D5185m	1270	1205	1248	1232			
Sulfur	ppm	ASTM D5185m	2060	3234	3070	3324			
CONTAMINAN	ΓS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	8	4	4			
Sodium	ppm	ASTM D5185m		<1	1	2			
Potassium	ppm	ASTM D5185m	>20	3	1	<1			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	1.7	1.9	1.8			
Nitration	Abs/cm	*ASTM D7624	>20	8.1	9.0	8.3			
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	22.6	21.5			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	16.5	15.1			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	7.9	7.9			
()	99								

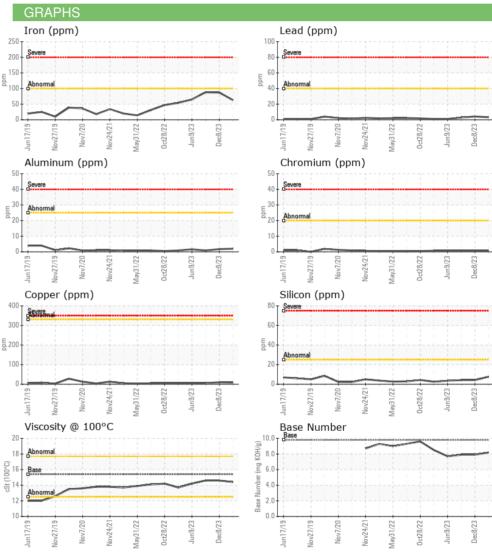


# **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.6	14.6









Sample No.

Lab Number : 06178052 Unique Number : 11029378

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0108517 Received : 13 May 2024

**Tested** : 14 May 2024 Diagnosed : 15 May 2024 - Sean Felton

Sulphur Springs, AR US 72768 Contact:

15100 N Hwy 59

Kemp Quarries - Benton County Stone - Gravette

Test Package : MOB 1 ( Additional Tests: TBN ) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

gravette@bentoncountystone.com

\* - 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)

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F: