**WEAR CONTAMINATION FLUID CONDITION** 

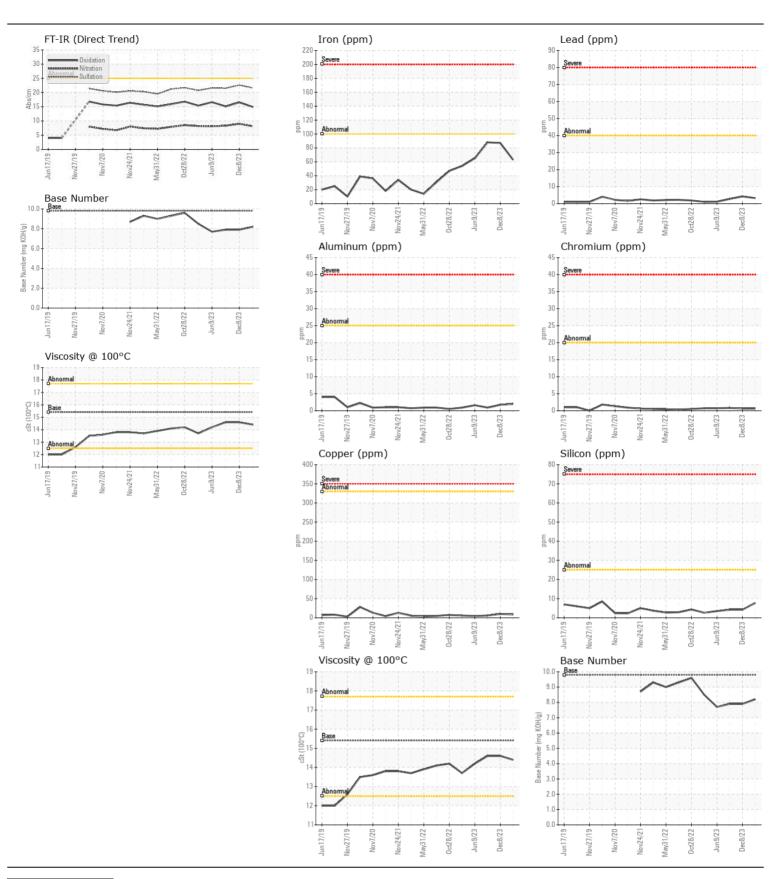
**NORMAL NORMAL NORMAL** 

## KEMP QUARRIES / BCS - GRAVETTE [69691]

**WL127** 

Diesel Engine

PETRO CANADA DURON SHP	15W40 ( C	GAL)					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TESSIMILITERATION	Sample Number	OOW	Client Info	Little	PCA0108517		PCA0086391
Resample at the next service interval to monitor. ( Customer Sample Comment: Pm2 )	Sample Date		Client Info		01 May 2024		30 Aug 2023
	Machine Age	hrs	Client Info		33781	33270	32702
	Oil Age	hrs	Client Info		511	568	32702
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAD			AOTM DEGOE	400		07	
WEAR	Iron	ppm	ASTM D5185m		63	87	88
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	<1
	Lead	ppm	ASTM D5185m		3	4	3
	Copper	ppm	ASTM D5185m		9	10	6
	Tin	ppm	ASTM D5185m	>15	1	<1	<1
	Vanadium	ppm	ASTM D5185m	NONE	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	4	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	1	<1
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	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		21.6	22.6	21.5
	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
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	1	2
	Boron	ppm	ASTM D5185m	0	0	<1	1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		62	63	61
	Manganese	ppm	ASTM D5185m		<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		1205	1248	1232
	Sulfur	ppm	ASTM D5185m	2060	3234	3070	3324
	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
	Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.6	14.6





Certificate L2367

Laboratory Sample No. Unique Number : 11029378

Lab Number : 06178052

: PCA0108517

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

: 13 May 2024 : 14 May 2024 : 15 May 2024 - Sean Felton

15100 N Hwy 59

Sulphur Springs, AR US 72768

Contact: gravette@bentoncountystone.com

Kemp Quarries - Benton County Stone - Gravette

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)

T: F: