

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

KEMP QUARRIES / BCS - GRAVETTE [69573] WL124

Component Diesel Engine

Fluid

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

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		PCA0108557	PCA0069785	PCA0086993
Resample at the next service interval to monitor. (Customer Sample Comment: Pm4)	Sample Date		Client Info		18 Apr 2024	08 Feb 2024	12 Oct 2023
	Machine Age	hrs	Client Info		38441	37365	37365
	Oil Age	hrs	Client Info		1076	37365	37365
	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
WEAR	Iron	ppm	ASTM D5185m	>100	25	22	25
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m		1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	-3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	3	1
	Lead	ppm	ASTM D5185m		2	3	2
	Copper		ASTM D5185m		6	6	6
	Tin	ppm	ASTM D5185m		1	<1	0
	Vanadium	ppm	ASTM D5185m	>15	۱ <1	<1	0
	White Metal	ppm		NONE		< I NONE	NONE
		scalar	*Visual		NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	7	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	2	3
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.1	0.9	1.2
	Nitration	Abs/cm	*ASTM D7624	>20	6.9	7.5	7.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	19.7	19.7
	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		0	2	3
	Boron	ppm	ASTM D5185m	0	0	0	<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		61	58	57
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		861	973	917
	Calcium	ppm	ASTM D5185m		1123	1278	1106
	Phosphorus	ppm	ASTM D5185m		937	1112	1009
	Zinc		ASTM D5185m		1143	1324	1265
	Sulfur	ppm	ASTM D5185m		3083	3134	3015
	Oxidation	ppm	*ASTM D5165111				
		Abs/.1mm			13.6	14.0	13.5
	Base Number (BN)	nių kutig	ASTIVI D2896	9.0	8.7	8.4	7.8

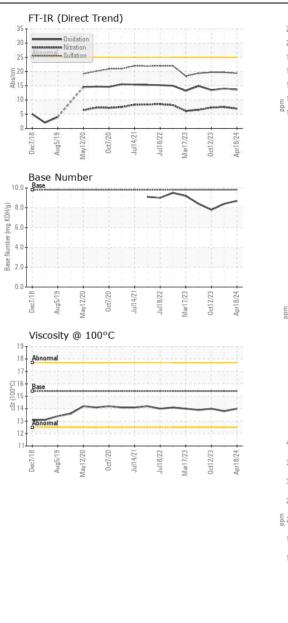
Visc @ 100°C cSt

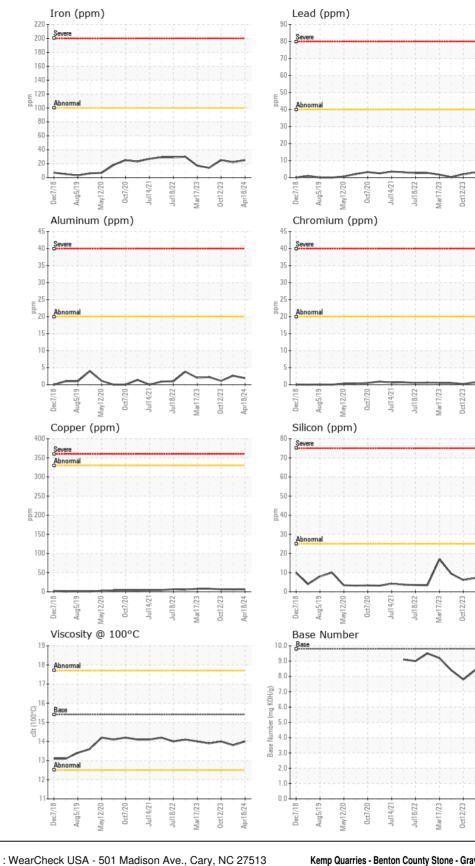
ASTM D445 15.4

14.0

14.0

13.8





: 15 May 2024 - Sean Felton US 72768 Unique Number : 11029373 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: Certificate L2367 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)

Received

Tested

: 13 May 2024

: 14 May 2024

Laboratory

Sample No.

Lab Number

: PCA0108557

: 06178047

15100 N Hwy 59

Sulphur Springs, AR

Kemp Quarries - Benton County Stone - Gravette

Apr18/24

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