

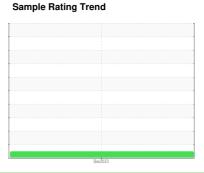
OIL ANALYSIS REPORT



KEMP QUARRIES / BCS - GRAVETTE [60470] TTTÖ09

Component **Diesel Engine**

PETRO CANADA DURO





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-4 changed fluid and filters)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

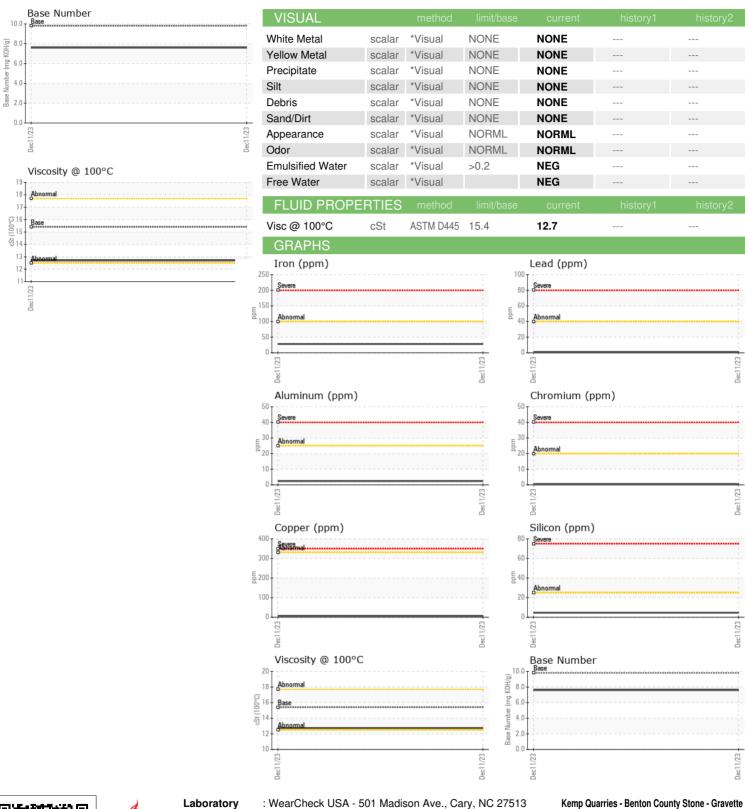
Fluid Condition

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

N SHP 15W40 (-	GAL)			Dec2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0070669		
Sample Date		Client Info		11 Dec 2023		
Machine Age	hrs	Client Info		14137		
Dil Age	hrs	Client Info		14137		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0		
Vater		WC Method	>0.2	NEG		
Slycol		WC Method		NEG		
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	28		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
- itanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	2		
_ead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	7		
- Tin	ppm	ASTM D5185m	>15	<1		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	40		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	21		
Manganese	ppm	ASTM D5185m	0	<1		
/lagnesium	ppm	ASTM D5185m	1010	765		
Calcium	ppm	ASTM D5185m	1070	1194		
Phosphorus	ppm	ASTM D5185m	1150	1037		
Zinc	ppm	ASTM D5185m	1270	1174		
Sulfur	ppm	ASTM D5185m	2060	3626		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	10.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6		



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Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: 06039035 : 10794264 Test Package : MOB 1 (Additional Tests: TBN)

: PCA0070669

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 19 Dec 2023 Diagnosed Diagnostician : Don Baldridge

: 20 Dec 2023

gravette@bentoncountystone.com

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)

15100 N Hwy 59

US 72768

Contact:

T: F:

Sulphur Springs, AR