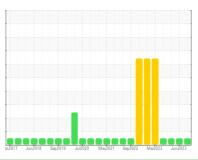


OIL ANALYSIS REPORT

KEMP QUARRIES / BCS - GRAVETTE **WL117**

Component **Diesel Engine**

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



Sample Rating Trend



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 oil.

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.

		3n2017 Jun2	018 Sep2019 Jul2020	May2021 Sep2022 Mar2023	Jun2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0086420	PCA0085785	PCA0086059
Sample Date		Client Info		01 Aug 2023	12 Jun 2023	18 Apr 2023
Machine Age	hrs	Client Info		5552	5317	5178
Oil Age	hrs	Client Info		5552	5317	5178
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	18	16	26
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	5
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	0	0
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	64	63
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	976	1042	1050
Calcium	ppm	ASTM D5185m	1070	1165	1235	1305
Phosphorus	ppm	ASTM D5185m	1150	1018	1111	996
Zinc	ppm	ASTM D5185m	1270	1216	1371	1316
Sulfur	ppm	ASTM D5185m	2060	2994	4000	3363
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	9	20
Sodium	ppm	ASTM D5185m		0	<1	1
Potassium	ppm	ASTM D5185m	>20	1	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.8	5.9	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	19.0	17.6
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	15.2	14.2
Base Number (BN)	mg KOH/g	ASTM D2896		9.3	9.2	8.9
(= / •/)	39					



OIL ANALYSIS REPORT







Report Id: KEMSUL [WUSCAR] 05926544 (Generated: 08/17/2023 16:07:37) Rev: 1

Laboratory Sample No. Lab Number **Unique Number**

: 05926544 : 10606491

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0086420

Received Diagnosed

: 16 Aug 2023 : 17 Aug 2023 Diagnostician : Sean Felton

Jun12/23

Test Package : MOB 1 (Additional Tests: TBN)

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)

Kemp Quarries - Benton County Stone - Gravette

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Contact:

gravette@bentoncountystone.com

T: F: