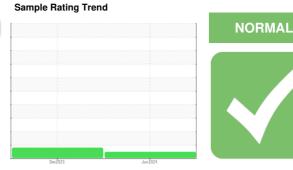


OIL ANALYSIS REPORT

KEMP QUARRIES / BCS - GRAVETTE [70569] **WL154**

Diesel Engine

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



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Pm1)

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 acceptable for the time in service.

GAL)			Dec2023	JunŽ024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0108502	PCA0070674	
Sample Date		Client Info		07 Jun 2024	08 Dec 2023	
Machine Age	hrs	Client Info		1367	1153	
Oil Age	hrs	Client Info		214	1153	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	1.8	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	3	
Chromium	ppm	ASTM D5185m	>20	<1	0	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	2	
Lead	ppm	ASTM D5185m	>40	2	0	
Copper	ppm	ASTM D5185m	>330	2	<1	
Tin	ppm	ASTM D5185m	>15	1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	49	332	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	69	116	
Manganese	ppm	ASTM D5185m	0	<1	0	
Magnesium	ppm	ASTM D5185m	1010	878	571	
Calcium	ppm	ASTM D5185m	1070	1166	1565	
Phosphorus	ppm	ASTM D5185m	1150	1040	939	
Zinc	ppm	ASTM D5185m	1270	1295	1119	
Sulfur	ppm	ASTM D5185m	2060	3878	3429	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	8	
Sodium	ppm	ASTM D5185m		2	<1	
Potassium	ppm	ASTM D5185m	>20	4	0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	7.0	5.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	20.1	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	14.5	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	8.9	



OIL ANALYSIS REPORT





Laboratory Sample No.

: PCA0108502 Lab Number : 06232824 Unique Number : 11116317

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

: 10 Jul 2024 : 11 Jul 2024 Diagnosed

: 12 Jul 2024 - Sean Felton

15100 N Hwy 59 Sulphur Springs, AR US 72768

Kemp Quarries - Benton County Stone - Gravette

gravette@bentoncountystone.com

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

 st - 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)

Report Id: KEMSUL [WUSCAR] 06232824 (Generated: 07/12/2024 12:16:50) Rev: 1

Submitted By:

Contact:

T:

F: