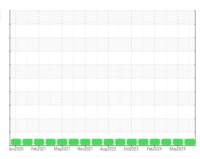


OIL ANALYSIS REPORT

KEMP QUARRIES / PRYOR STONE [71264] **WP067**

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 performed. Engine oil sample taken. Engine oil, and all filters changed.)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

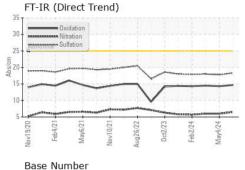
Fluid Condition

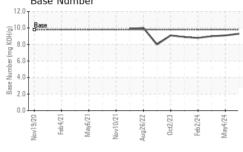
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

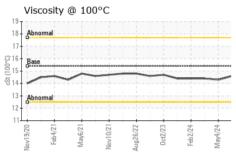
ane,						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0108867	PCA0086667	PCA0086647
Sample Date		Client Info		29 May 2024	04 May 2024	01 Apr 2024
Machine Age	hrs	Client Info		6666	6182	5775
Oil Age	hrs	Client Info		479	407	427
Oil Changed		Client Info		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
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	7	6	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	1
Lead	ppm	ASTM D5185m	>40	3	3	1
Copper	ppm	ASTM D5185m	>330	1	<1	0
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	0	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	59	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1042	984	1050
Calcium	ppm	ASTM D5185m	1070	1142	1115	1119
Phosphorus	ppm	ASTM D5185m	1150	1073	1079	1135
Zinc	ppm	ASTM D5185m	1270	1342	1270	1340
Sulfur	ppm	ASTM D5185m	2060	3219	3607	3793
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	2	3
Sodium	ppm	ASTM D5185m		2	2	<1
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.5	6.0	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	17.8	18.0
FLUID DEGRAD	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	14.3	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.3	9.1	9.0



OIL ANALYSIS REPORT





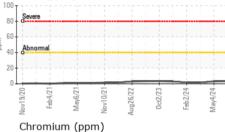


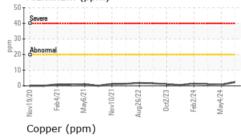
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG

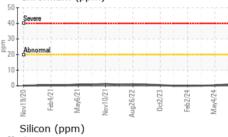
LLUID LUOP		memod			HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.6	14.3	14.4

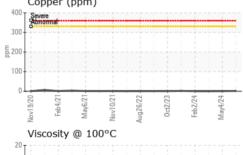
Lead (ppm)

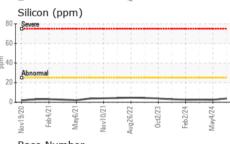
O Severe						-
Abnormal						
50		\wedge				
20 20 721	12	12/	22	23	24	24
Nov19/20 Feb4/21	May6/	Nov10/2	Aug26/22	Oct2,	Feb2/24	May4/24
Aluminu	m (nn	m)				

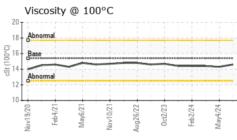


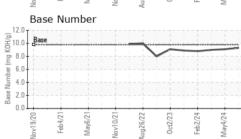
















Report Id: KEMPRY [WUSCAR] 06229709 (Generated: 07/09/2024 15:22:48) Rev: 1

Laboratory Sample No.

Lab Number : 06229709 Unique Number : 11113202

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0108867 Received

: 08 Jul 2024 **Tested** : 09 Jul 2024 Diagnosed

: 09 Jul 2024 - Sean Felton

Kemp Quarries - Pryor Stone - Pryor 1050 E 520 Rd Pryor, OK

US 74361 Contact: PRYOR NOTIFICATIONS pryor@pryorstone.com

Test Package : MOB 1 (Additional Tests: TBN) Certificate 12367 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)

Submitted By:

T:

F: