

OIL ANALYSIS REPORT

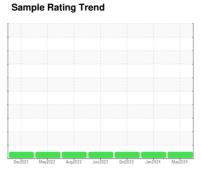
Area

KEMP QUARRIES / KEMP STONE - FAIRLAND [69383] OHT123

Diesel Engine

Fluid

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





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-2 changed fluid and filters)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

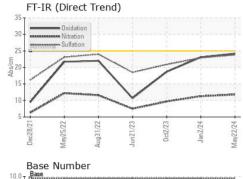
Fluid Condition

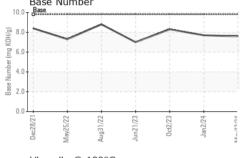
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

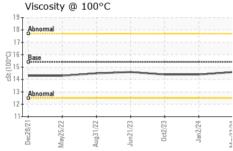
Sample Date Client Info 22 May 2024 02 Jan 2024 0. Machine Age hrs Client Info 38485 37987 3	
Sample Date Client Info 22 May 2024 02 Jan 2024 0. Machine Age hrs Client Info 38485 37987 3	history2
Machine AgehrsClient Info38485379873	CA0084732
	2 Oct 2023
Oil Ago bro Client Info 20405 27007	7517
Oil Age 1115 Ciletit 11110 36463 37907 3	7517
•	hanged
Sample Status NORMAL NORMAL N	ORMAL
CONTAMINATION 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 METALS method limit/base current history1	history2
Iron ppm ASTM D5185m >100 53 41	28
Chromium ppm ASTM D5185m >20 1 <1	<1
Nickel ppm ASTM D5185m >4 <1	<1
Titanium ppm ASTM D5185m 0	<1
Silver ppm ASTM D5185m >3 <1 0	0
Aluminum ppm ASTM D5185m >20 3 2	2
Lead ppm ASTM D5185m >40 4 2	3
Copper ppm ASTM D5185m >330 6 5	5
Tin ppm ASTM D5185m >15 <1 0	<1
VanadiumppmASTM D5185m00	<1
CadmiumppmASTM D5185m0	<1
ADDITIVES method limit/base current history1	history2
Boron ppm ASTM D5185m 0 0	0
Barium ppm ASTM D5185m 0 0 0	4
Molybdenum ppm ASTM D5185m 60 72 67	59
	<1
Manganese ppm ASTM D5185m 0 <1	
Manganese ppm ASTM D5185m 0 <1	882
Manganese ppm ASTM D5185m 0 <1	1031
Manganese ppm ASTM D5185m 0 <1	1031 971
Manganese ppm ASTM D5185m 0 <1	1031 971 1153
Manganese ppm ASTM D5185m 0 <1	1031 971 1153 2722
Manganese ppm ASTM D5185m 0 <1	1031 971 1153
Manganese ppm ASTM D5185m 0 <1	1031 971 1153 2722 history2
Manganese ppm ASTM D5185m 0 <1	1031 971 1153 2722 history2
Manganese ppm ASTM D5185m 0 <1	1031 971 1153 2722 history2
Manganese ppm ASTM D5185m 0 <1	1031 971 1153 2722 history2 3
Manganese ppm ASTM D5185m 0 <1	1031 971 1153 2722 history2 3 4
Manganese ppm ASTM D5185m 0 <1	1031 971 1153 2722 history2 3 4 1
Manganese ppm ASTM D5185m 0 <1	1031 971 1153 2722 history2 3 4 1 history2 0.5
Manganese ppm ASTM D5185m 0 <1	1031 971 1153 2722 history2 3 4 1 history2 0.5 9.7
Manganese ppm ASTM D5185m 0 <1	1031 971 1153 2722 history2 3 4 1 history2 0.5 9.7 20.9



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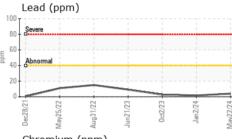


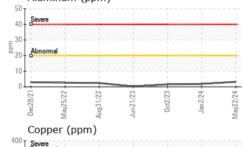
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

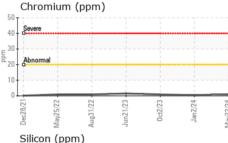
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.6	14.4	14.4

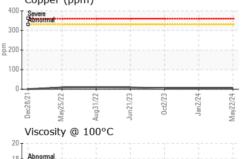
250 T :						
200 - Severe			i	į		
			-	I I	-	
E 150						
Abnor	mal					
50	-			<u></u>		
0						
Dec28/21-	22	722	733	733	724	24
9c28	May25/22	Aug31/22	Jun21/23	0ct2/23	Jan 2/2	May22/24
ă	ĕ	Au	3	_	\neg	∑ S
Δlun	ninum	(nnm)				
50 T		(PP)				
Severe						
40			-	1		
30						

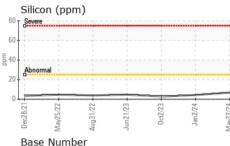
GRAPHS Iron (ppm)

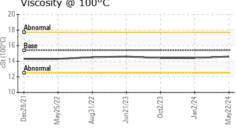


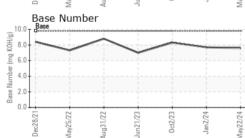














Certificate 12367

Sample No.

: PCA0109096 Lab Number : 06193219

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 May 2024 **Tested**

: 30 May 2024 : 30 May 2024 - Sean Felton

Kemp Quarries - Kemp Stone - Fairland 18350 S 590 Rd Fairland, OK

Unique Number : 11049971 Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

Contact: fairland@kempstone.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)

US 74343

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