

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION ABNORMAL



KEMP QUARRIES / PRYOR STONE [70706]

OHT110 Component

Diesel Engine

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

RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Pm1 performed. All oil samples taken. Engine oil, engine oil filters, fuel filters, and air filters replaced.)

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All component wear rates are normal.

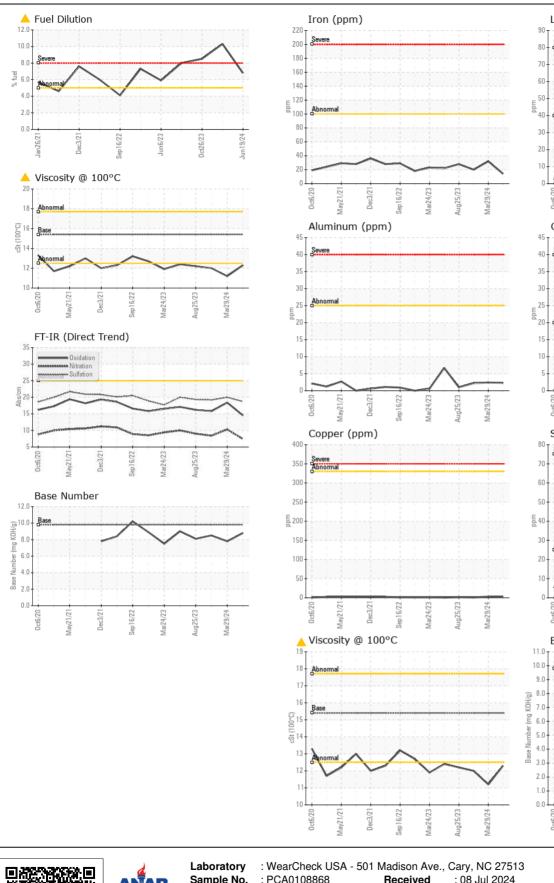
CONTAMINATION

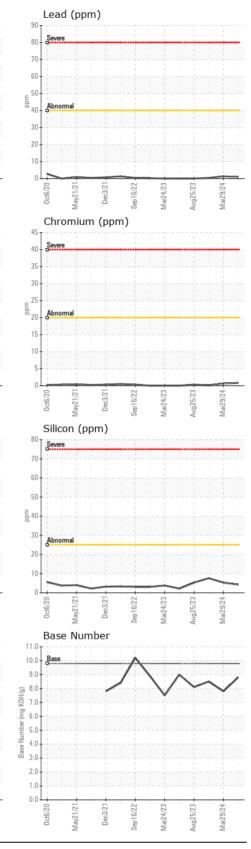
There is a moderate amount of fuel present in the oil.

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0108868	PCA0086621	PCA0086249
Sample Date		Client Info		19 Jun 2024	29 Mar 2024	26 Oct 2023
Machine Age	hrs	Client Info		29710	29240	28435
Oil Age	hrs	Client Info		470	805	352
Filter Age	hrs	Client Info		470	805	352
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185m	>100	14	32	20
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	2
Lead	ppm	ASTM D5185m	>40	<1	1	<1
Copper	ppm	ASTM D5185m	>330	2	3	1
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	4	5	8
Potassium	ppm	ASTM D5185m	>20	2	2	2
Fuel	%	ASTM D3524	>5	6 .8	1 0.3	8 .5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.5	0.9	0.6
Nitration	Abs/cm	*ASTM D7624	>20	7.4	10.3	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	20.0	19.2
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
Sodium	ppm	ASTM D5185m		2	0	1
Boron	ppm	ASTM D5185m	0	3	<1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	60	55
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	971	902	871
Calcium	ppm	ASTM D5185m	1070	1087	1064	966
Phosphorus	ppm	ASTM D5185m	1150	1037	1024	974
Zinc	ppm	ASTM D5185m	1270	1278	1156	1195
Sulfur	ppm	ASTM D5185m	2060	3104	3010	2884
Oxidation	Abs/.1mm	*ASTM D310311	>25	14.5	18.4	15.8
Base Number (BN)	mg KOH/g	ASTM D7414 ASTM D2896	9.8	8.8	7.8	8.5
Visc @ 100°C		ASTM D2090 ASTM D445				▲ 12.0
	cSt	AS 1 IVI D445	15.4	12.3	11.2	<u> </u>





Kemp Quarries - Pryor Stone - Pryor Sample No. : PCA0108868 1050 E 520 Rd Received : 08 Jul 2024 : 06229708 Lab Number Pryor, OK Tested : 10 Jul 2024 : 10 Jul 2024 - Sean Felton US 74361 Unique Number : 11113201 Diagnosed Test Package : MOB 1 (Additional Tests: PercentFuel, TBN) Contact: Certificate L2367 pryor@pryorstone.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. Т: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)