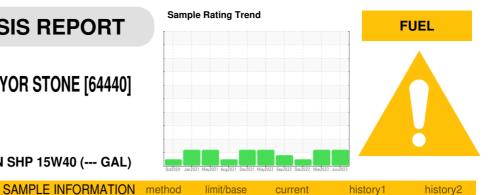


OIL ANALYSIS REPORT



history1

current

KEMP QUARRIES / PRYOR STONE [64440] **OHT110** Component **Diesel Engine**

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

DIAGNOSIS	
A 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, and all filters changed.)

Wear

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.

		motilou	initia base	Guirent	Thistory	Thistory 2
Sample Number		Client Info		PCA0083989	PCA0083921	PCA0070312
Sample Date		Client Info		06 Jun 2023	24 Mar 2023	15 Dec 2022
Machine Age	hrs	Client Info		27575	27095	33273
Oil Age	hrs	Client Info		480	515	593
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	22	23	18
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	7	<1	0
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	1	1
Tin	ppm	ASTM D5185m	>15	0	0	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	<1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	59	57
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1052	936	832
Calcium	ppm	ASTM D5185m	1070	1167	1051	1041
Phosphorus	ppm	ASTM D5185m	1150	1095	984	964
Zinc	ppm	ASTM D5185m	1270	1397	1247	1113
Sulfur	ppm	ASTM D5185m	2060	3905	3235	2889
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	4	3
Sodium	ppm	ASTM D5185m		2	<1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Fuel	%	ASTM D3524	>5	人 5.9	▲ 7.3	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	10.0	9.4	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	17.7	18.9
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	16.5	15.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	7.5	8.9
	0 0					

limit/base



OIL ANALYSIS REPORT

limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

current

NONE

NONE

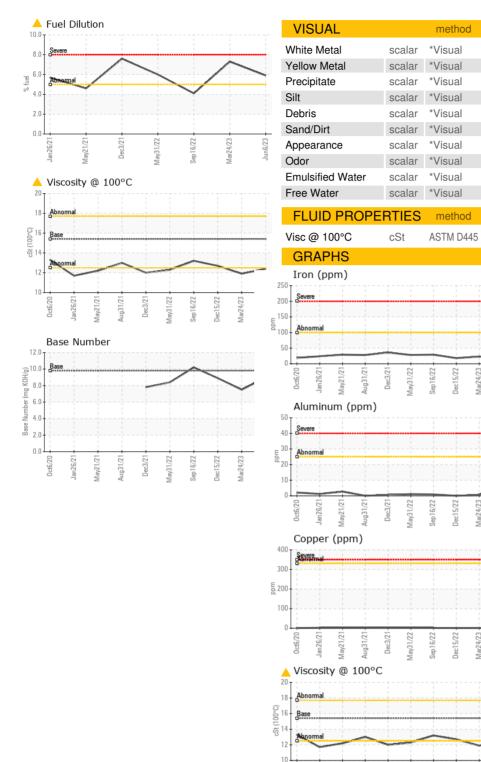
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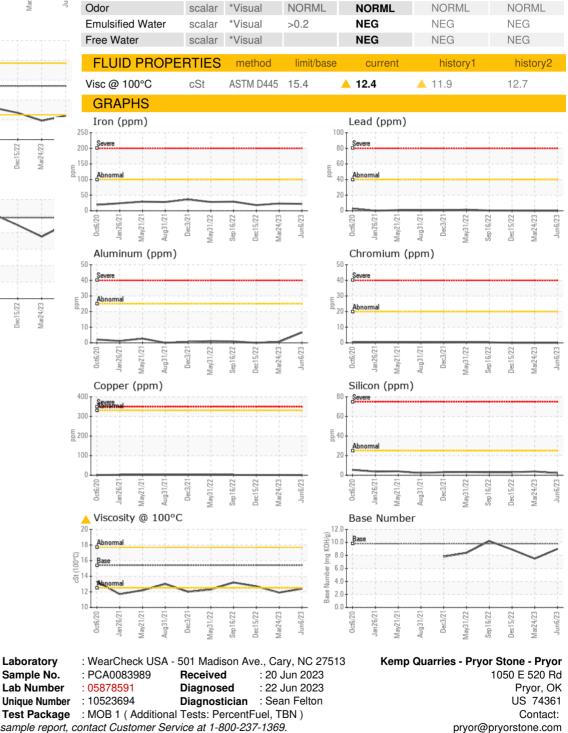
NONE

NONE

NONE

NORML





history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

history2

NONE

NONE

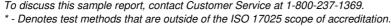
NONE

NONE

NONE

NONE

NORML



0ct6/20

Laboratory

Sample No.

Lab Number

Unique Number

an26/21 10/10/ml

: PCA0083989

: 05878591

: 10523694

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Aug31/21

Dec3/21 Mav31/22

Received

Diagnosed

Sep16/22

Dec15/22

Certificate L2367

T:

F: