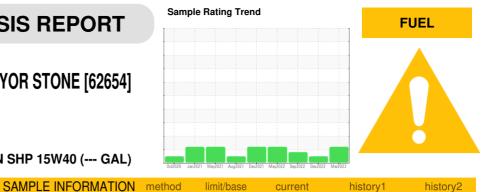


## **OIL ANALYSIS REPORT**



history1

current

history2

### KEMP QUARRIES / PRYOR STONE [62654] **OHT110** Component **Diesel Engine**

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

DIAGNOSIS
A Recommendation

oil.

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: Pm4 performed. All oil samples taken. All oils, and all filters changed. All breathers, and screens cleaned/ replaced.)

## Wear All component wear rates are normal. Contamination There is a moderate amount of fuel present in the Fluid Condition

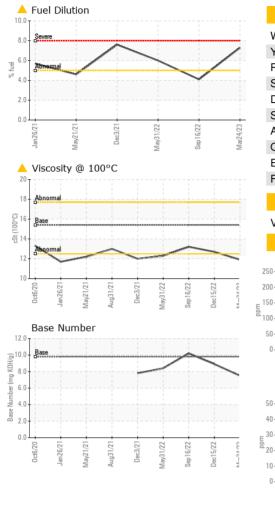
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

		methou	IIIIII/Dase	current	TISTOLAL	Thistory 2
Sample Number		Client Info		PCA0083921	PCA0070312	PCA0048946
Sample Date		Client Info		24 Mar 2023	15 Dec 2022	16 Sep 2022
Machine Age	hrs	Client Info		27095	33273	26001
Oil Age	hrs	Client Info		515	593	466
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	MARGINAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	23	18	29
Chromium	ppm	ASTM D5185m	>20	0	0	<1
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	<1	0	<1
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	1	1	2
Tin	ppm	ASTM D5185m	>15	0	0	<1
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	<1	0	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	57	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	936	832	936
Calcium	ppm	ASTM D5185m	1070	1051	1041	1104
Phosphorus	ppm	ASTM D5185m	1150	984	964	1048
Zinc	ppm	ASTM D5185m	1270	1247	1113	1241
Sulfur	ppm	ASTM D5185m	2060	3235	2889	3738
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	3
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	1
Fuel	%	ASTM D3524	>5	<mark>/</mark> 7.3	<1.0	<b>4</b> .1
			limit/base	current	history1	history2
INFRA-RED		method	in the base			
	%	*ASTM D7844	>3	0.7	0.6	0.6
INFRA-RED Soot % Nitration	% Abs/cm					0.6 8.9
Soot % Nitration		*ASTM D7844	>3	0.7	0.6	
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20	0.7 9.4	0.6 8.5	8.9
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20 >30	0.7 9.4 17.7	0.6 8.5 18.9	8.9 20.5

limit/base



# **OIL ANALYSIS REPORT**





Certificate L2367