WEAR CONTAMINATION **FLUID CONDITION**

NORMAL **MARGINAL ATTENTION**

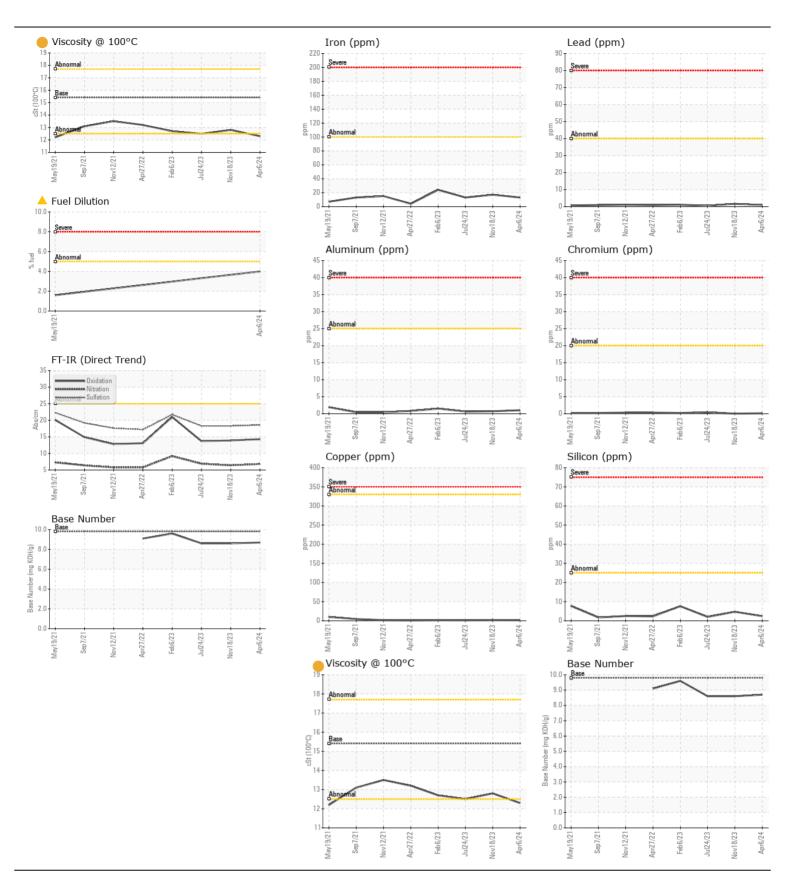
KEMP QUARRIES / PRYOR STONE [68156]



WL141

Diesel Engine

PETRO CANADA DURON SHP 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.)	Sample Number		Client Info		PCA0086636	PCA0084331	PCA0084558
	Sample Date		Client Info		06 Apr 2024	18 Nov 2023	24 Jul 2023
	Machine Age	hrs	Client Info		26330	25744	25250
	Oil Age	hrs	Client Info		586	494	25250
	Filter Age	hrs	Client Info		586	494	25250
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	13	17	13
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	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	<1	<1
	Lead	ppm	ASTM D5185m	>40	<1	2	<1
	Copper	ppm	ASTM D5185m	>330	2	2	2
	Tin	ppm	ASTM D5185m	>15	0	0	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	2	5	2
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m	>20	2	<1	2
	Fuel	%	ASTM D3524	>5	4.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	6.8	6.4	6.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	18.3	18.3
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	3	1
Fuel is present in the oil and is lowering the viscosity. The BN result	Boron	ppm	ASTM D5185m	0	2	0	<1
indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		59	57	55
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		1017	934	944
	Calcium	ppm	ASTM D5185m		1105	1063	1032
	Phosphorus	ppm	ASTM D5185m		1127	1035	1016
	Zinc	ppm	ASTM D5185m		1320	1248	1242
	Sulfur	ppm	ASTM D5185m		3741	3079	3632
	Oxidation	Abs/.1mm	*ASTM D7414		14.3	13.9	13.7
	Base Number (BN)				8.7	8.6	8.6
	Visc @ 100°C	cSt	ASTM D445	15.4	12.3	12.8	12.5





Certificate L2367

Laboratory Sample No.

Lab Number : 06149297

: PCA0086636 Unique Number : 10979375

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

: 15 Apr 2024 Diagnosed Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

: 19 Apr 2024 : 19 Apr 2024 - Don Baldridge

1050 E 520 Rd Pryor, OK US 74361

Kemp Quarries - Pryor Stone - Pryor

Contact: PRYOR NOTIFICATIONS pryor@pryorstone.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: F: