

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

KEMP QUARRIES / PRYOR STONE [71159] **WP049** Compone **Diesel Engine**

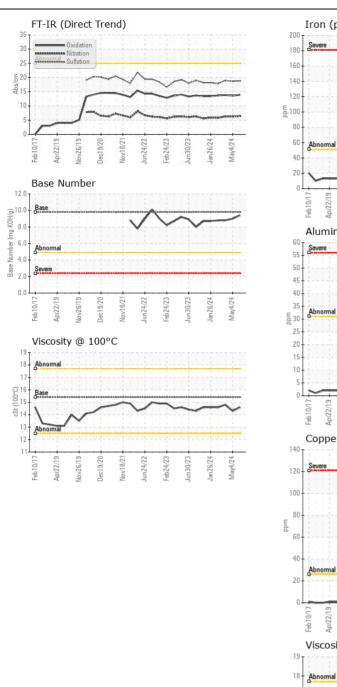
Fluid

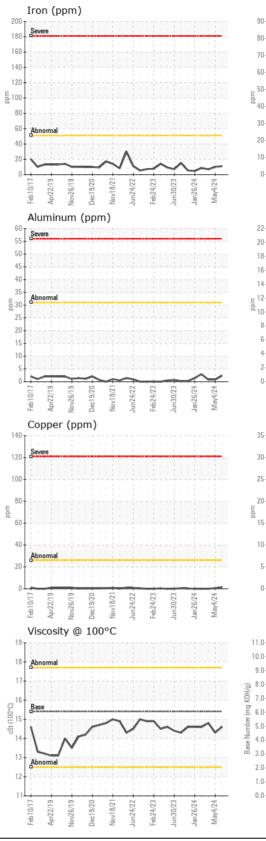
PETRO CANADA DURON SHP 15W40 (GA	AL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		PCA0108866	PCA0086666	PCA008664
Resample at the next service interval to monitor. (Customer Sample Comment: PM performed. Engine oil sample taken. Engine oil, and a	" Sample Date		Client Info		21 May 2024	04 May 2024	04 Apr 202
filters changed.)	Machine Age	hrs	Client Info		13795	13464	13103
inters changeu.)	Oil Age	hrs	Client Info		331	361	366
	Filter Age	hrs	Client Info		331	361	366
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changeo
	Sample Status				NORMAL	NORMAL	NORMA
WEAR	Iron	ppm	ASTM D5185m	>51	11	10	7
	Chromium	ppm	ASTM D5185m	>11	1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	<1	0	0
	Titanium	ppm	ASTM D5185m		1	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>31	2	<1	<1
	Lead	ppm	ASTM D5185m	>26	1	2	<1
	Copper	ppm	ASTM D5185m	>26	2	<1	0
	Tin	ppm	ASTM D5185m	>4	<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONI
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	5	3	2
	Potassium	ppm	ASTM D5185m	>20	3	1	<1
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.7	0.9
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	6.3	6.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	18.7	18.9
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORI

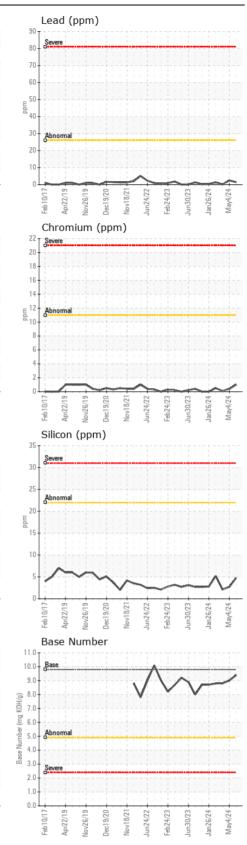
FLUID CONDITION

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

Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.7	0.9
Nitration	Abs/cm	*ASTM D7624	>20	6.4	6.3	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	18.7	18.9
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	>0.21	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>31	10	1	<1
Boron	ppm	ASTM D5185m	0	3	0	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	64	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1054	1083	1050
Calcium	ppm	ASTM D5185m	1070	1156	1165	1136
Phosphorus	ppm	ASTM D5185m	1150	1107	1128	1139
Zinc	ppm	ASTM D5185m	1270	1367	1363	1350
Sulfur	ppm	ASTM D5185m	2060	3363	3874	3840
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	13.6	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.4	9.0	8.8
Visc @ 100°C	cSt	ASTM D445	15.4	14.6	14.3	14.8







Kemp Quarries - Pryor Stone - Pryor Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : PCA0108866 Received : 08 Jul 2024 1050 E 520 Rd Lab Number : 06229711 Tested : 09 Jul 2024 Pryor, OK Unique Number : 11113204 Diagnosed : 09 Jul 2024 - Sean Felton US 74361 Test Package : MOB 1 (Additional Tests: TBN) Contact: Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. pryor@pryorstone.com * - 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)