

Area KEMP QUARRIES / PRYOR STONE [70970] WP006

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

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: PM performed. Engine oil sample taken. Engine oil, and all filters changed.)

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high.

Fluid Condition

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



SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0108864	PCA0083996	PCA0070359
Sample Date		Client Info		30 May 2024	13 Jun 2023	27 Jan 2023
Machine Age	hrs	Client Info		5118	4679	4375
Oil Age	hrs	Client Info		439	304	319
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	~10	<10	<10
Water		WC Method	>0.2	NEG	NEG	NEG
	-					
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	41	39	31
Chromium	ppm	ASTM D5185m	>20	3	<1	2
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	3	7	<1
Lead	ppm	ASTM D5185m	>30	8	5	5
Copper	ppm	ASTM D5185m	>30	7	3	3
Tin	ppm	ASTM D5185m	>15	6	4	3
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	16	11	10
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	72	75	73
Manganese	ppm	ASTM D5185m	0	1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1024	1079	911
Calcium	ppm	ASTM D5185m	1070	1152	1239	1080
Phosphorus	ppm	ASTM D5185m	1150	1099	1141	979
Zinc	ppm	ASTM D5185m	1270	1331	1445	1183
Sulfur	ppm	ASTM D5185m	2060	3368	4188	3551
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	20	11	7
Sodium	ppm	ASTM D5185m		416	A 302	<u> </u>
Potassium	ppm	ASTM D5185m	>20	25	8	5
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.4	2.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.7	7.9	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	20.9	21.8
FLUID DEGRA						
	DATION	method	limit/base	current	history1	history2
Ovidation	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	limit/base	current	history1 12.9	history2 16.3



OIL ANALYSIS REPORT













Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Kemp Quarries - Pryor Stone - Pryor Sample No. : PCA0108864 Received : 08 Jul 2024 1050 E 520 Rd Lab Number : 06229710 Tested : 09 Jul 2024 Pryor, OK Unique Number : 11113203 Diagnosed : 09 Jul 2024 - Sean Felton US 74361 Test Package : MOB 1 (Additional Tests: Glycol, TBN) Contact: PRYOR NOTIFICATIONS Certificate 12367 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: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

un13/23

20/74

un13/23