

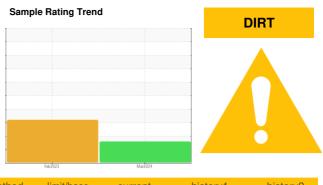
OIL ANALYSIS REPORT



KEMP QUARRIES / BCS - MILL CREEK [66781] TTT008 Component

Diesel Engine

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



DIAGNOSIS	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		PCA0109068	PCA0086723	
Oil and filter change at the time of sampling has	Sample Date		Client Info		11 Mar 2024	02 Feb 2023	
been noted. Resample at the next service interval	Machine Age	hrs	Client Info		7033	6859	
to monitor. (Customer Sample Comment: 50 hr after rebuild, PM-1)	Oil Age	hrs	Client Info		7033	6859	
	Oil Changed		Client Info		Changed	Changed	
Wear All component wear rates are normal.	Sample Status				ABNORMAL	ABNORMAL	
Contamination Elemental level of silicon (Si) above normal indicating ingress of seal material.	CONTAMINA	TION	method	limit/base	current	history1	history2
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
Fluid Condition	Glycol		WC Method		NEG	NEG	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the	WEAR META	LS	method	limit/base	current	history1	history2
bil is suitable for further service.	Iron	ppm	ASTM D5185m	>100	22	🔺 131	
	Chromium	ppm	ASTM D5185m	>20	1	8	
	Nickel	ppm	ASTM D5185m	>2	<1	2	
	Titanium	ppm	ASTM D5185m	>2	<1	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>25	4	1 1	
	Lead	ppm	ASTM D5185m		4	16	
	Copper	ppm	ASTM D5185m		14	300	
	Tin	ppm	ASTM D5185m	>15	3	4	
	Vanadium	ppm	ASTM D5185m		0	0	
	Cadmium	ppm	ASTM D5185m		0	0	
	ADDITIVES		method	limit/base		history1	history2
	Boron	ppm	ASTM D5185m		2	6	
	Barium	ppm	ASTM D5185m		1	0	
	Molybdenum	ppm	ASTM D5185m		62	64	
	Manganese	ppm	ASTM D5185m		<1	2	
	Magnesium	ppm		1010	1011	965	
	Calcium	ppm		1070	1181	1311	
	Phosphorus	ppm		1150	1131	999	
	Zinc	ppm		1270	1332	1278	
	Sulfur CONTAMINAI	ppm	ASTM D5185m	2060	3637	3194	
	Silicon		method ASTM D5185m	limit/base	current	history1	history2
	Sodium	ppm	ASTM D5185m	20	<u> </u>	36	
	Potassium	ppm ppm	ASTM D5185m	>20	2	5	
		221					
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.1	0.7	
	Nitration	Abs/cm	*ASTM D7624	>20	5.8	12.4	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	26.0	
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	25.9	
		1/0111		0.0		0.1	

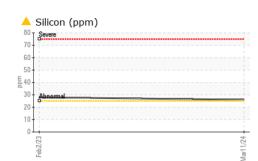
Base Number (BN) mg KOH/g ASTM D2896 9.8

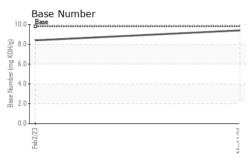
8.4

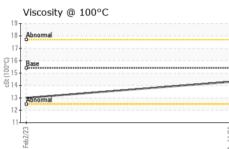
9.4



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Test Package : MOB 1 (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Laboratory

Sample No.

Lab Number

T:

F:

tellis@kempguarries.com