

WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION ATTENTION

ETS Machine Id [ETS] 68 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (24 QTS)

	Test	UOM	Method	Limit/Abn	Current	History	History2
RECOMMENDATION		UOIVI		LITTIL/ADT	PCA0041878	History1 WC0843782	WC0788561
We advise that you check for the source of the coolant leak. The oil	Sample Number		Client Info		13 Jun 2024		
change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date	mlo	Client Info			225046	20 Jun 2023
	Machine Age	mls	Client Info		232533		217776
	Oil Age	mls	Client Info		7487	7270	7224
	Filter Age	mls	Client Info		7487	7270	7224
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	SEVERE	ABNORMAI
WEAR	Iron	ppm	ASTM D5185m	>75	66	28	19
	Chromium	ppm	ASTM D5185m	>5	2	2	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	<1	0
	Titanium	ppm	ASTM D5185m	>2	<1	0	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m		5	2	<1
	Lead	ppm	ASTM D5185m		- <1	<1	0
	Copper	ppm	ASTM D5185m	>100	1	1	<1
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon		ASTM D5185m	. 05	•	11	7
CONTAMINATION	Potassium	ppm ppm	ASTM D5185m		9 ▲ 428	▲ 432	A 307
Test for glycol is positive. There is a high concentration of glycol present in the oil.	Fuel	ррп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol	%	*ASTM D2982	20.2	▲ 0.10	▲ 0.10	NEG
	Soot %	%	*ASTM D7844	>6	0.3	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	11.5	11.6	11.1
	Sulfation	Abs/.1mm	*ASTM D7624		22.0	23.3	23.1
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<mark>)</mark> 139	1 52	1 12
The DN requit indicates that there is suitable alkelinity remaining in the	Boron	ppm	ASTM D5185m	0	9	0	6
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	60	93	93	84
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	1055	1038	1057
	Calcium	ppm	ASTM D5185m	1070	1183	1153	1180
	Phosphorus	ppm	ASTM D5185m	1150	1097	989	1069
	Zinc	ppm	ASTM D5185m	1270	1436	1339	1368
	Sulfur	ppm	ASTM D5185m	2060	3728	3244	3686
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	19.9	20.5

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

ASTM D445 15.4

Visc @ 100°C cSt

6.5

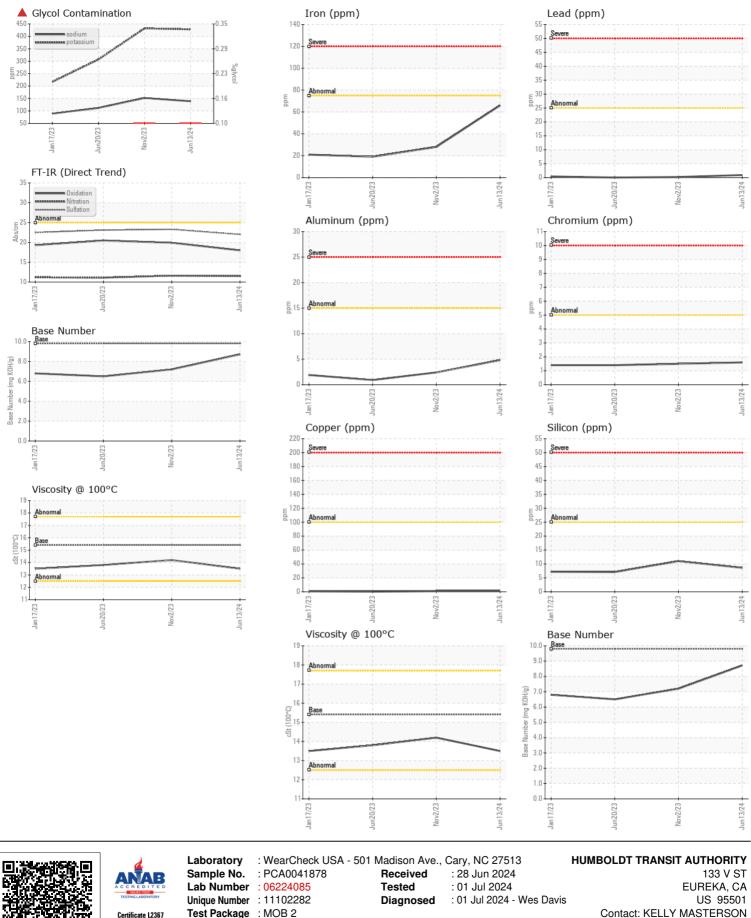
13.8

7.2

14.2

8.71

13.5



Test Package : MOB 2 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)

kelly@hta.org

Т:

F: