

## SHTS Machine Id [SHTS] 514

## Diesel Engine

## PETRO CANADA DURON SHP 15W40 (18 QTS)

	<b>/</b>						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0901472	WC0843770	WC0843746
	Sample Date		Client Info		16 Apr 2024	18 Jan 2024	07 Oct 2023
	Machine Age	mls	Client Info		266368	255302	244577
	Oil Age	mls	Client Info		11066	10725	11087
	Filter Age	mls	Client Info		11066	10725	11087
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>80	10	10	12
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	0	0	<1
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		3	3	5
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m		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	>20	3	3	4
	Potassium	ppm	ASTM D5185m		2	2	4
There is no indication of any contamination in the oil.	Fuel	pp	WC Method		- <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	/ 0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.6	8.0
	Sulfation	Abs/.1mm	*ASTM D7415		19.1	18.9	18.8
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	3	5
	Boron	ppm	ASTM D5185m	0	5	6	4
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		64	61	66
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		1026	1046	1018
	Calcium	ppm	ASTM D5185m		1137	1123	1101
	Phosphorus	ppm	ASTM D5185m		1063	1069	1029
	Zinc		ASTM D5185m		1324	1342	1323
	Sulfur	ppm ppm	ASTM D5185m		3373	3064	3146
	Oxidation	Abs/.1mm	*ASTM D5165111		15.5	14.9	15.4
	Base Number (BN)				7.9	7.9	8.0
		nig KON/g		3.0	1.9	1.5	0.0

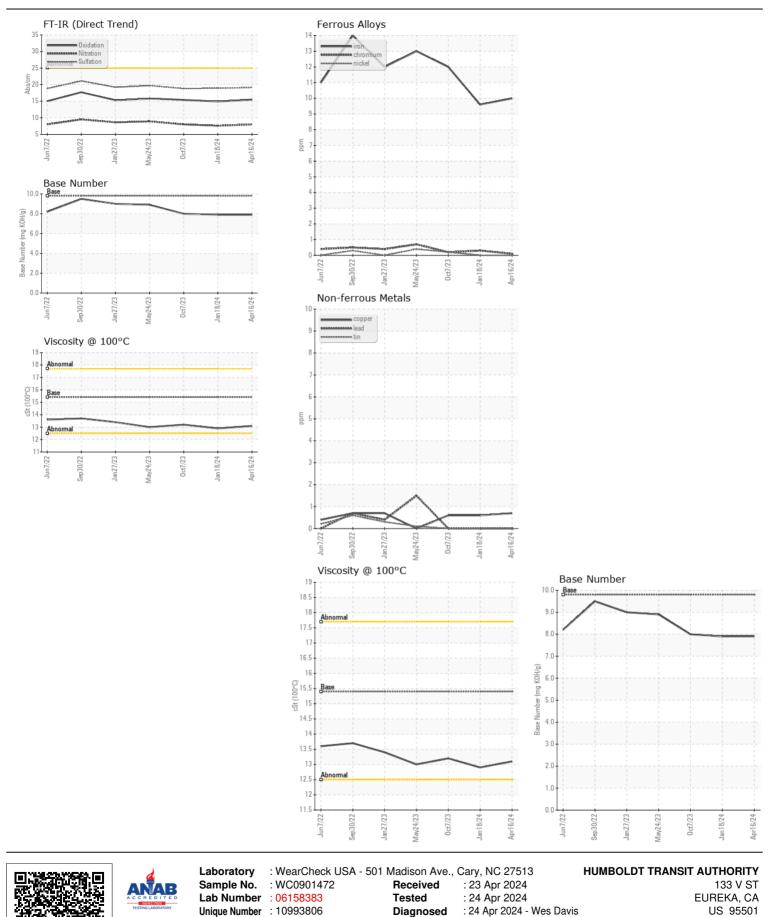
Visc @ 100°C cSt

ASTM D445 15.4

13.1

13.2

12.9



Certificate L2367 Test Package : FLEET 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)

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