

WEAR	NORMAL
CONTAMINATION	
FLUID CONDITION	NORMAL

BARTO Machine Id 7073 [BARTO] Component

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

FEITIO CANADA DOTION SHF 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		SBP0007223	SBP0005681	SBP0004367
	Sample Date		Client Info		06 May 2024	10 Oct 2023	15 May 2023
	Machine Age	mls	Client Info		339175	302428	258442
	Oil Age	mls	Client Info		36747	43986	39186
	Filter Age	mls	Client Info		36747	43986	39186
	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	25	34	20
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	2	2	1
	Nickel	ppm	ASTM D5185m	>2	<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>30	9	9	11
	Lead	ppm	ASTM D5185m	>30	<1	<1	0
	Copper	ppm	ASTM D5185m	>150	9	12	13
	Tin	ppm	ASTM D5185m	>5	1	1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	7	5
	Potassium	ppm	ASTM D5185m		6	6	5
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.8	1	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	10.5	9.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	22.9	21.9
	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	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	2
	Boron	ppm	ASTM D5185m	0	4	8	3
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	63	61
	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	910	1000	851
	Calcium	ppm	ASTM D5185m		1120	1147	1347
	Phosphorus	ppm	ASTM D5185m	1150	969	998	906
	Zinc	ppm	ASTM D5185m		1248	1310	1180
	Sulfur	ppm	ASTM D5185m	2060	3050	2418	2738
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	20.6	19.9
	Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.2	5.4	6.7

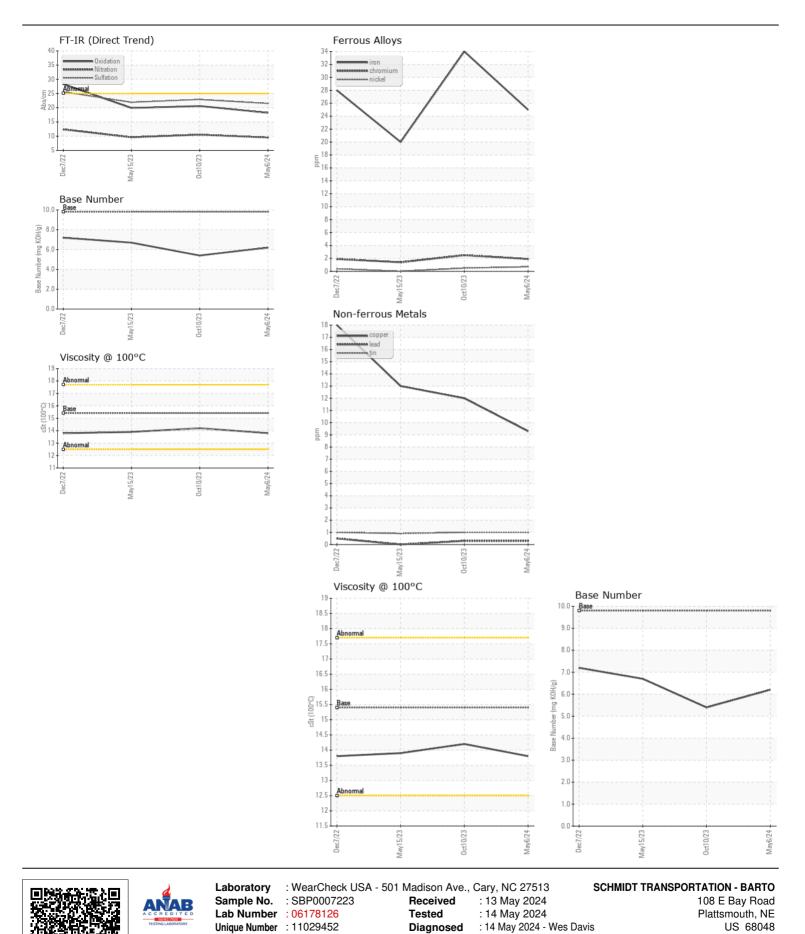
Visc @ 100°C cSt

ASTM D445 15.4

13.9

14.2

13.8



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)

Submitted By: CASEY WILKIE Page 2 of 2

Contact: Service Manager

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