

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

(71051P) Machine Id

10540

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

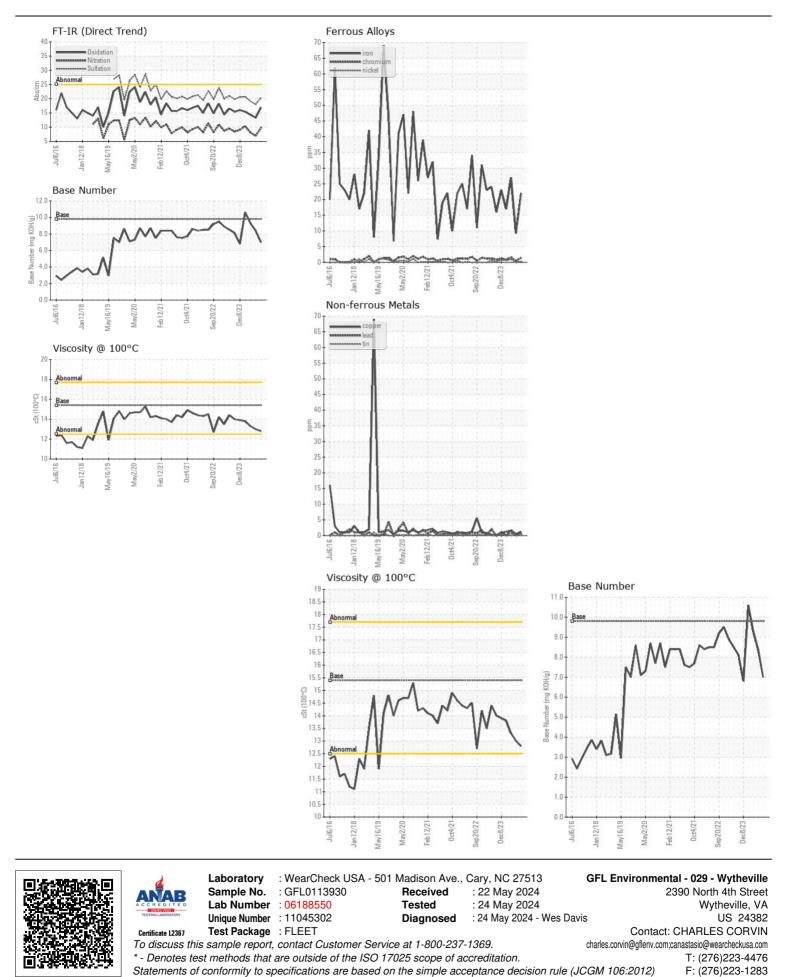
FEITIO CANADA DOITON SHE ISW40 (10 GAL	/						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0113930	GFL0113909	GFL0093751
	Sample Date		Client Info		20 May 2024	12 Mar 2024	13 Feb 2024
	Machine Age	hrs	Client Info		15712	15238	15112
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ATTENTION	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>75	22	9	27
	Chromium	ppm	ASTM D5185m	>5	1	<1	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	1
	Silver	ppm	ASTM D5185m		<1	0	<1
	Aluminum	ppm	ASTM D5185m		2	2	7
	Lead	ppm	ASTM D5185m		1	0	2
	Copper	ppm	ASTM D5185m		1	<1	2
	Tin	ppm	ASTM D5185m	>4	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>~25</u>	8	6	20
OONTAMINATION	Potassium	ppm	ASTM D5185m		2	1	4
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		- <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	/ 0.12	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.6	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.7	6.9	8.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	18.0	19.1
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		65	179	▲ 785
	Boron	ppm	ASTM D5185m	0	5	10	15
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		62	60	98
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		914	867	1223
	Calcium	ppm	ASTM D5185m		1102	1046	1333
	Phosphorus	ppm	ASTM D5185m		979	969	1300
	Zinc	ppm	ASTM D5185m		1257	1167	1592
	Sulfur	ppm	ASTM D5185m		3094	3640	4866
	Oxidation	Abs/.1mm	*ASTM D7414		16.9	13.3	14.3
	Base Number (BN)				7.0	8.4	9.3
	Vier C 10000	- 01	AOTA DATE	45.4	40.0	10.0	10.0

Visc @ 100°C cSt ASTM D445 15.4

13.0

13.3

12.8



Submitted By: CHARLES CORVIN Page 2 of 2