

## NORMAL WEAR NORMAL CONTAMINATION **FLUID CONDITION** NORMAL

(UC16220) 814057 one **Diesel Engine** 

## PETRO CANADA DURON SHP 15W40 (39 QTS)

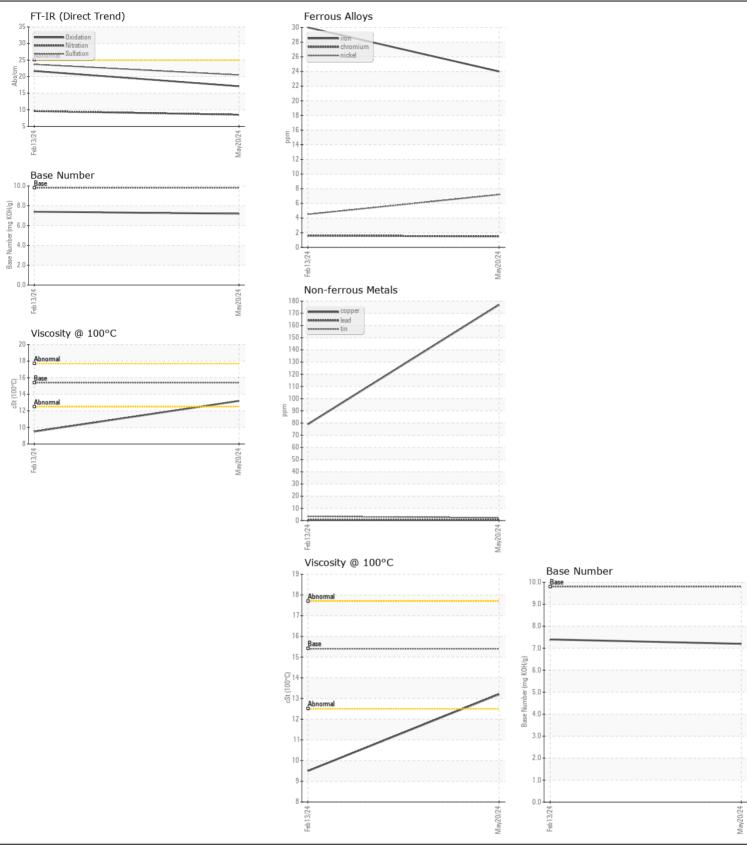
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0114588	GFL0096513	
	Sample Date		Client Info		20 May 2024	13 Feb 2024	
	Machine Age	hrs	Client Info		1138	594	
	Oil Age	hrs	Client Info		544	594	
	Filter Age	hrs	Client Info		544	594	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>120	24	30	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	2	
	Nickel	ppm	ASTM D5185m		7	4	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		3	<1	
	Aluminum	ppm	ASTM D5185m		3	5	
	Lead	ppm	ASTM D5185m		<1	<1	
	Copper	ppm	ASTM D5185m		177	79	
	Tin	ppm	ASTM D5185m		2	3	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	、25	13	<b>▲</b> 65	
	Potassium	ppm	ASTM D5185m		3	6	
There is no indication of any contamination in the oil.	Fuel	ρριιι	WC Method		<1.0	0.5	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	20.L	NEG	NEG	
	Soot %	%	*ASTM D7844	<u>_4</u>	0.3	0.3	
	Nitration	Abs/cm	*ASTM D7624		8.5	9.6	
	Sulfation	Abs/.1mm	*ASTM D7415		20.5	23.7	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	0	
	Boron	ppm	ASTM D5185m	0	39	268	
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	
	Molybdenum	ppm	ASTM D5185m		80	119	
	Manganese	ppm	ASTM D5185m		1	4	
	Magnesium	ppm	ASTM D5185m		1264	640	
	Calcium	ppm	ASTM D5185m		1516	1359	
	Phosphorus	ppm	ASTM D5185m		1298	628	
	Zinc	ppm	ASTM D5185m		1613	769	
	Sulfur	ppm	ASTM D5185m		4018	2575	
	Oxidation	Abs/.1mm	*ASTM D5105111		17.1	21.7	
	Base Number (BN)				7.2	7.4	
	Dase Mulliper (DN)	ing NOR/g	A011VI D2030	5.0	1.2	7.4	

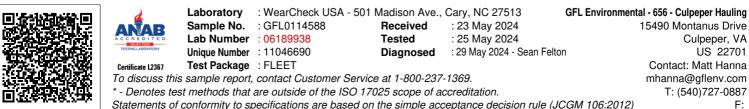
Visc @ 100°C cSt

ASTM D445 15.4

9.5

13.2





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