



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL			
Visc @ 100°C	cSt	ASTM D445	15.4	10.4			

Customer Id: GFL418 Sample No.: GFL0069824 Lab Number: 05984402 Test Package: FLEET



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RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 733M

Component **Diesel Engine** Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		GFL0069824		
Oil and filter change at the time of sampling has	Sample Date		Client Info		21 Jun 2023		
been noted. Resample at the next service interval	Machine Age	hrs	Client Info		22012		
to monitor.	Oil Age	hrs	Client Info		600		
Wear	Oil Changed		Client Info		Changed		
All component wear rates are normal.	Sample Status				ABNORMAL		
Contamination Fuel content negligible. There is no indication of	CONTAMINAT	ION	method	limit/base	current	history1	history2
any contamination in the oil.	Glycol		WC Method		NEG		
Fluid Condition	WEAR METAL	.S	method	limit/base	current	history1	history2
ndicates that there is suitable alkalinity remaining in	Iron	ppm	ASTM D5185m	>90	16		
ne oil. Confirm oil type.	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>2	0		
	Titanium	ppm	ASTM D5185m	>2	<1		
	Silver	ppm	ASTM D5185m	>2	<1		
	Aluminum	ppm	ASTM D5185m	>20	2		
	Lead	ppm	ASTM D5185m	>40	0		
	Copper	ppm	ASTM D5185m	>330	3		
	Tin	ppm	ASTM D5185m	>15	<1		
	Vanadium	ppm	ASTM D5185m		0		
	Cadmium	ppm	ASTM D5185m		0		
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	44		
	Barium	ppm	ASTM D5185m	0	8		
	Molybdenum	ppm	ASTM D5185m	60	45		
	Manganese	ppm	ASTM D5185m	0	4		
	Magnesium	ppm	ASTM D5185m	1010	597		
	Calcium	ppm	ASTM D5185m	1070	1582		
	Phosphorus	ppm	ASTM D5185m	1150	838		
	Zinc	ppm	ASTM D5185m	1270	1014		
	Sulfur	ppm	ASTM D5185m	2060	2599		
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	13		
	Sodium	ppm	ASTM D5185m		2		
	Potassium	ppm	ASTM D5185m	>20	<1		
	Fuel	%	ASTM D3524	>3.0	0.3		
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>6	0.1		
	Nitration	Abs/cm			6.3		
	Sulfation	Abs/.1mm	*ASTM D7624		20.3		
	FLUID DEGRAI		method	limit/base	current	history1	history2
	Oxidation		*ASTM D7414		18.1		
	Base Number (BN)				9.9		
	Dase Nulliber (BN)	niy NOR/y	A01101 D2030	5.0	9.9		



OIL ANALYSIS REPORT

