

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 611M Component Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

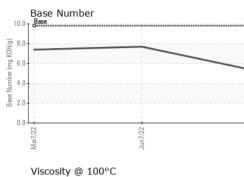
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

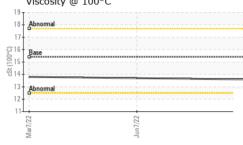
Sample NumberClient InfoGFL0059132GFL0018487GFL0018487Sample DateClient Info30 Oct 202307 Jun 202207 Mar 2022Machine AgehrsClient Info1418157075153Oil AgehrsClient Info1418157070Oil ChangedClient InfoN/AN/AN/ASample StatusImageNORMALNORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1historyFuelWC Method>3.0<1.0<1.0<1.0GlycolWC MethodNEGNEGNEGNEG	
Machine AgehrsClient Info1418157075153Oil AgehrsClient Info1418157070Oil ChangedClient InfoN/AN/AN/ASample StatusImageNORMALNORMALNORMALCONTAMINATIONmethodlimit/basecurrenthistory1history1FuelWC Method>3.0<1.0<1.0<1.0	22
Oil Age hrs Client Info 14181 5707 0 Oil Changed Client Info N/A N/A N/A Sample Status NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 Fuel WC Method >3.0 <1.0 <1.0	
Oil Changed Client Info N/A N/A N/A Sample Status NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history1 Fuel WC Method >3.0 <1.0	
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Fuel WC Method >3.0 <1.0	-
	2
Glycol WC Method NEG NEG NEG	
WEAR METALS method limit/base current history1 history	'2
Iron ppm ASTM D5185m >120 24 6 8	
Chromium ppm ASTM D5185m >20 <1	
Nickel ppm ASTM D5185m >5 0 0 0	
Titanium ppm ASTM D5185m >2 0 0 0	
Silver ppm ASTM D5185m >2 0 0 <1	
Aluminum ppm ASTM D5185m >20 2 3 5	
Lead ppm ASTM D5185m >40 3 <1 <1	
Copper ppm ASTM D5185m >330 2 8 7	
Tin ppm ASTM D5185m >15 <1	
Vanadium ppm ASTM D5185m 0 <1	
Cadmium ppm ASTM D5185m 0 <1	
ADDITIVES method limit/base current history1 history	<i>י</i> 2
Boron ppm ASTM D5185m 0 <1	
Barium ppm ASTM D5185m 0	
Molybdenum ppm ASTM D5185m 60 58 57 68	
Manganese ppm ASTM D5185m 0 <1	
Magnesium ppm ASTM D5185m 1010 975 877 1081	
Calcium ppm ASTM D5185m 1070 1091 1049 1234	
Phosphorus ppm ASTM D5185m 1150 932 940 1209	
Zinc ppm ASTM D5185m 1270 1294 1195 1478	
Zinc ppm ASTM D5185m 1270 1294 1195 1478 Sulfur ppm ASTM D5185m 2060 2260 2761 3262	
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Zinc ppm ASTM D5185m 1270 1294 1195 1478 Sulfur ppm ASTM D5185m 2060 2260 2761 3262 CONTAMINANTS method limit/base current history1 history Silicon ppm ASTM D5185m >25 16 3 5 Sodium ppm ASTM D5185m >20 2 0 3 Potassium ppm ASTM D5185m >20 2 0 3 INFRA-RED method limit/base current history1 history1 Soot % % *ASTM D7844 >4 1.4 0.3 0.4 Nitration Abs/cm *ASTM D7624 >20 9.1 8.8 10.0	
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OIL ANALYSIS REPORT

VISUAL





To discuss this sample report		vice at 1-8	00-237-1360	,			sh@gflenv.con		
Laboratory Sample No. Lab Number Unique Number Test Package	: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0059132 Received : 09 Nov 2023 : 06002785 Diagnosed : 10 Nov 2023 : 10736547 Diagnostician : Wes Davis : FLEET				GFL Env	GFL Environmental - 410 - Michigan We 39000 Van Born F Wayne, M US 4818 Contact: Belal Dgheis			
	Mar7/22	Jun7/22		0ct30/23	Mar7/22	Jun7/22	0.450.023		
	11	/22		0.0	22	22			
	13 Abnormal			<u>۵</u> 2.0					
	12			0.8 Base Number	•				
	016 Base 015 % 14			under (
				KOH					
	17	1		⊋ 8.0					
	19 18 - Abnormal			10.0	Base				
	Viscosity @ 100°C	C			Base Number				
	Mar7/22	Jun7/22		0ct30/23					
		122	******	23					
	2		DIMADDIMANDIMANDIMANDIN						
	4			An and a second					
	6 - 1								
	8 - copper	_							
	Non-ferrous Meta	ls							
	Mar7/22	Jun7/22		0ct30/23					
	0	22/1		0/23					
	5								
	10								
	15- E		/						
л Г	In CKEI								
Jun7/22	iron								
	Ferrous Alloys								
	GRAPHS								
	Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	13.8		
	FLUID PROPE	RTIES	method	limit/base	current	history1	history2		
	Free Water	scalar	*Visual		NEG	NEG	NEG		
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG		
Jun7/22	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	NORML NORML		
22	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE		
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE		
	VISUAL		method	limit/base		history1	history2		

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)