

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id **822050**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- 0

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a components first oil change.

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.

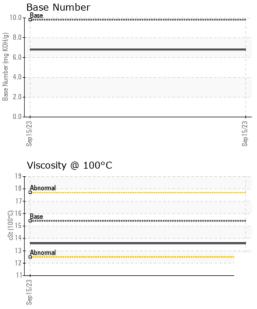
AL)			Sep2023				
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0090348			
Sample Date		Client Info		15 Sep 2023			
Machine Age	hrs	Client Info		3285			
Oil Age	hrs	Client Info		3285			
Oil Changed		Client Info		N/A			
Sample Status				NORMAL			
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2	
-uel		WC Method	>5	<1.0			
Glycol		WC Method		NEG			
WEAR METAI	_S	method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185m	>100	27			
Chromium	ppm	ASTM D5185m	>20	1			
Nickel	ppm	ASTM D5185m	>4	<1			
Titanium	ppm	ASTM D5185m		0			
Silver	ppm	ASTM D5185m	>3	0			
Aluminum	ppm	ASTM D5185m	>20	9			
ead	ppm	ASTM D5185m	>40	0			
Copper	ppm	ASTM D5185m	>330	1			
īn	ppm	ASTM D5185m	>15	<1			
/anadium	ppm	ASTM D5185m		0			
Cadmium	ppm	ASTM D5185m		0			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	7			
Barium	ppm	ASTM D5185m	0	0			
Nolybdenum	ppm	ASTM D5185m	60	60			
Manganese	ppm	ASTM D5185m	0	<1			
/lagnesium	ppm	ASTM D5185m	1010	996			
Calcium	ppm	ASTM D5185m	1070	1203			
Phosphorus	ppm	ASTM D5185m	1150	1075			
Zinc	ppm	ASTM D5185m	1270	1315			
Sulfur	ppm	ASTM D5185m	2060	3630			
CONTAMINA	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5			
Sodium	ppm	ASTM D5185m		7			
Potassium	ppm	ASTM D5185m	>20	15			
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4			
Nitration	Abs/cm	*ASTM D7624	>20	9.5			
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3			
FLUID DEGRA	NOITAG	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7			
2 November (DAD)		AOTAA DOCCO	0.0				

6.8

Base Number (BN) mg KOH/g ASTM D2896 9.8



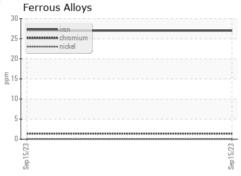
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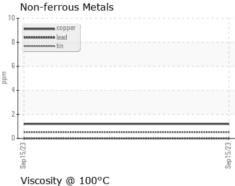


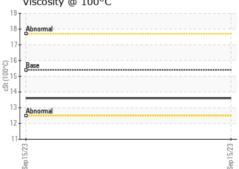
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
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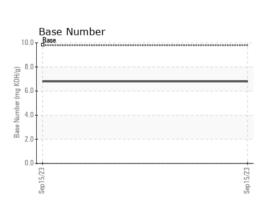
FLUID PROPE	ERITES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6		

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10658106 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0090348 : 05956893

Received : 20 Sep 2023 Diagnosed Diagnostician : Wes Davis

: 21 Sep 2023

GFL Environmental - 963 - Peoria HC Disposal

1113 N. Swords Ave. West Peoria, IL US 61604

Contact: Corey Dozard cdozard@gflenv.com

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)

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