

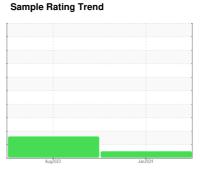
OIL ANALYSIS REPORT



Machine Id **729089-13135**

Component **Diesel Engine**

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





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

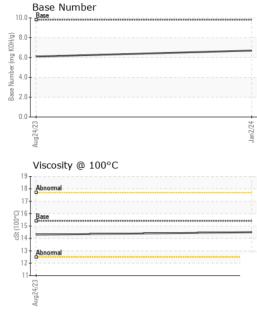
Fluid Condition

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

N SHP 15W40 (-	GAL)		Aug2023	Jan2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085342	GFL0085362	
Sample Date		Client Info		02 Jan 2024	24 Aug 2023	
Machine Age	hrs	Client Info		923	274	
Oil Age	hrs	Client Info		649	274	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
- uel		WC Method	>5	<1.0	<1.0	
Vater		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAI	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	50	54	
Chromium	ppm	ASTM D5185m	>5	1	2	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Γitanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	4	3	
_ead	ppm	ASTM D5185m	>30	<1	0	
Copper	ppm	ASTM D5185m	>150	2	4	
Γin	ppm	ASTM D5185m	>5	<1	0	
/anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	0	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	62	56	
Manganese	ppm	ASTM D5185m	0	<1	1	
Magnesium	ppm	ASTM D5185m	1010	1044	884	
Calcium	ppm	ASTM D5185m	1070	1102	957	
Phosphorus	ppm	ASTM D5185m	1150	1168	919	
Zinc	ppm	ASTM D5185m	1270	1420	1160	
Sulfur	ppm	ASTM D5185m	2060	3181	3156	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	23	▲ 82	
Sodium	ppm	ASTM D5185m		7	4	
Potassium	ppm	ASTM D5185m	>20	3	<1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	10.8	14.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.0	28.9	
ELLID DECDA	DATION	method	limit/base	current	history1	history2
FLUID DEGRA	DATION	method	IIIIIII basc	Current	111010191	1110101 9 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.5	38.2	



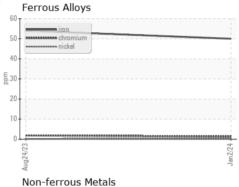
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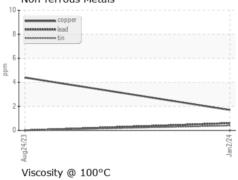


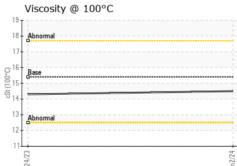
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

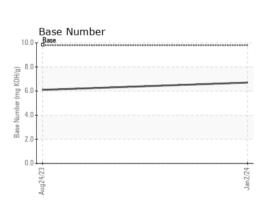
I LOID I HOI LI	TILO					
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	14.3	

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10820551

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0085342 : 06054602

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Recieved Diagnosed

: 08 Jan 2024 : 09 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 958A - Chillicothe Wigand

19908 N. State Rd 29 Chillicothe, IL US 61523 Contact: Bryan Link

blink@gflenv.com T:

* - 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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