

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



(42989HA) 727018 Component **Diesel Engine**

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





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

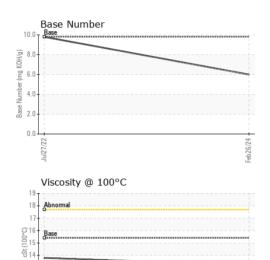
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (-	GAL)		Jul2022	Feb2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104086	GFL0053271	
Sample Date		Client Info		26 Feb 2024	27 Jul 2022	
Machine Age	hrs	Client Info		13342	12200	
Oil Age	hrs	Client Info		600	600	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	<1.0	
Vater		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	16	<1	
Chromium	ppm	ASTM D5185m	>20	1	0	
Nickel	ppm	ASTM D5185m	>5	1	0	
Γitanium	ppm	ASTM D5185m	>2	<1	1	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>20	5	4	
_ead	ppm	ASTM D5185m	>40	<1	<1	
Copper	ppm	ASTM D5185m	>330	3	6	
Γin	ppm	ASTM D5185m	>15	1	<1	
/anadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	8	
Barium	ppm	ASTM D5185m	0	1	0	
Molybdenum	ppm	ASTM D5185m	60	55	56	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	792	864	
Calcium	ppm	ASTM D5185m	1070	948	1060	
Phosphorus	ppm	ASTM D5185m	1150	870	1018	
Zinc	ppm	ASTM D5185m	1270	1117	1218	
Sulfur	ppm	ASTM D5185m	2060	2968	3441	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	2	
Sodium	ppm	ASTM D5185m		3	2	
Potassium	ppm	ASTM D5185m	>20	3	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.8	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	9.5	6.8	
	Abs/.1mm	*ASTM D7415	>30	19.7	18.4	
Sulfation	A03/.1111111					
Sulfation FLUID DEGRA			limit/base	current	history1	history2
			limit/base	current	history1	history2



Abnormal

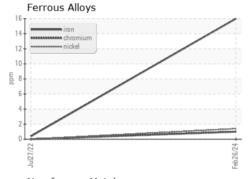
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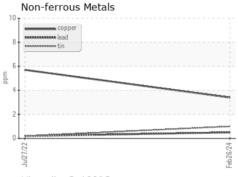


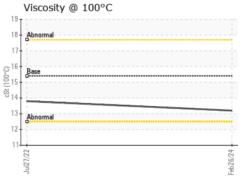
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	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	

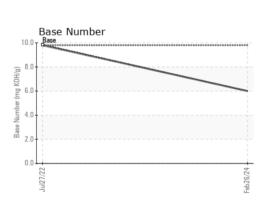
FLUID PROP	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.8	

GRAPHS













Laboratory Sample No.

Lab Number : 06101469 Unique Number : 10899699 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0104086 Received : 27 Feb 2024

Tested : 28 Feb 2024 Diagnosed : 28 Feb 2024 - Wes Davis

GFL Environmental - 028 - Weldon

2211 US Highway 301

Halifax, NC US 27839

T: (252)532-3344

Contact: TRAVIS PORCH tporch@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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Submitted By: TRAVIS PORCH