

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id **4518M** 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

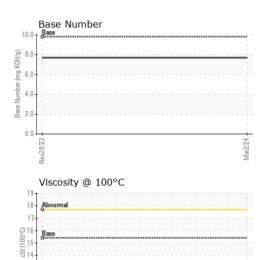
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (-	GAL)		Nov2023	Mar2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108986	GFL0101451	
Sample Date		Client Info		02 Mar 2024	28 Nov 2023	
Machine Age	hrs	Client Info		27760	27698	
Oil Age	hrs	Client Info		27698	23666	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	3	3	
Chromium	ppm	ASTM D5185m	>5	<1	0	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	2	<1	
_ead	ppm	ASTM D5185m	>30	0	0	
Copper	ppm	ASTM D5185m	>150	<1	<1	
Γin	ppm	ASTM D5185m	>5	0	0	
/anadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	<1	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	57	49	
Manganese	ppm	ASTM D5185m	0	0	0	
Magnesium	ppm	ASTM D5185m	1010	855	844	
Calcium	ppm	ASTM D5185m	1070	958	992	
Phosphorus	ppm	ASTM D5185m	1150	949	972	
Zinc	ppm	ASTM D5185m	1270	1170	1162	
Sulfur	ppm	ASTM D5185m	2060	2816	2725	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	5	3	
Sodium	ppm	ASTM D5185m		56	26	
Potassium	ppm	ASTM D5185m	>20	2	0	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Vitration	Abs/cm	*ASTM D7624	>20	5.5	5.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.4	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	13.9	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	7.7	



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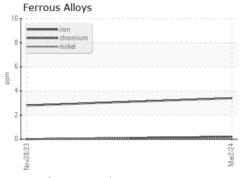
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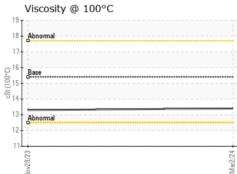
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

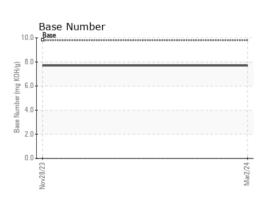
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.3	

GRAPHS



10 -	Non-ferrous Metals
10	copper
8	necessana lead
	announce till
6 -	
bbm	
4 -	
2	
0.4	23
	Nov28/23
	ž







Certificate L2367

Laboratory Sample No.

: GFL0108986 Lab Number : 06108433 Unique Number : 10911930 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Mar 2024 **Tested**

: 06 Mar 2024 Diagnosed : 06 Mar 2024 - Wes Davis

6200 Elmridge

GFL Environmental - 415 - Michigan East

Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

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)

Report Id: GFL415 [WUSCAR] 06108433 (Generated: 03/06/2024 17:36:22) Rev: 1

Submitted By: Frank Wolak