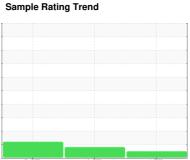


OIL ANALYSIS REPORT









Machine Id **913071** 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

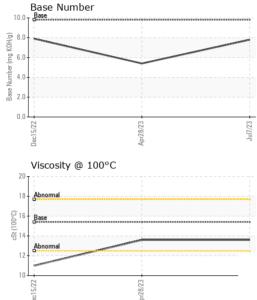
Fluid Condition

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)	Dec	2022	Apr2023 Jul20	23	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0082763	GFL0081320	GFL0063281
Sample Date		Client Info		07 Jul 2023	28 Apr 2023	15 Dec 2022
Machine Age	hrs	Client Info		2393	1805	708
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	0.3
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	20	41	87
Chromium	ppm	ASTM D5185m	>20	<1	1	2
Nickel	ppm	ASTM D5185m	>5	3	<u> </u>	<u> </u>
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<1	2	5
Lead	ppm	ASTM D5185m	>40	<1	0	3
Copper	ppm	ASTM D5185m	>330	8	36	138
Tin	ppm	ASTM D5185m	>15	1	3	8
Vanadium	ppm	ASTM D5185m	7.0	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	6	107
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	68	116
Manganese	ppm	ASTM D5185m	0	<1	2	6
Magnesium	ppm	ASTM D5185m	1010	869	993	747
Calcium	ppm	ASTM D5185m	1070	1108	1193	1471
Phosphorus	ppm	ASTM D5185m	1150	973	935	819
Zinc	ppm	ASTM D5185m	1270	1215	1227	883
Sulfur	ppm	ASTM D5185m	2060	2903	2688	2247
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	7	61
Sodium	ppm	ASTM D5185m		0	30	4
Potassium	ppm	ASTM D5185m	>20	2	2	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1	1.2	1.3
Nitration	Abs/cm	*ASTM D7624	>20	8.5	9.3	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	20.2	26.5
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	16.2	24.3
Base Number (BN)	mg KOH/g			7.8	5.4	7.9
(DIV)	9		5.0		Ü	



OIL ANALYSIS REPORT



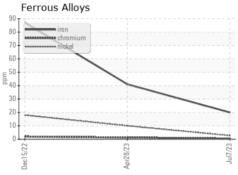
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

13.6

13.6

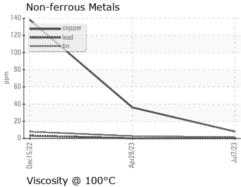
11.0

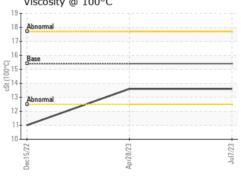
Visc @	100°C
GRA	PHS

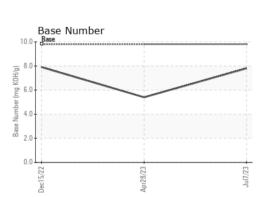


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ASTM D445 15.4











Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10552550 Test Package : FLEET

: GFL0082763 : 05896740

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jul 2023 Diagnosed : 13 Jul 2023

Diagnostician : Wes Davis

GFL Environmental - 465 - Pontiac 888 Baldwin

Pontiac, MI US 48340 Contact: Ricky Matthews

rickymathews@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)