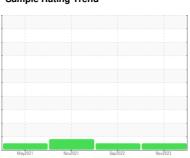


OIL ANALYSIS REPORT

Sample Rating Trend







Component

Machine Id **4702M 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

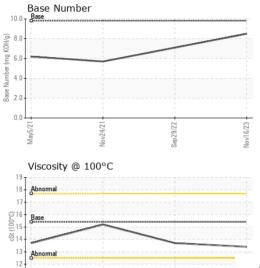
Fluid Condition

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)	May202	1 Nov2021	Sep2022 No	v2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101599	GFL0057379	GFL0036208
Sample Date		Client Info		16 Nov 2023	29 Sep 2022	24 Nov 2021
Machine Age	hrs	Client Info		12018	8959	6476
Oil Age	hrs	Client Info		8959	6476	4533
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>75	14	25	<u></u> 108
Chromium	ppm	ASTM D5185m	>5	<1	<1	3
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m		1	6	8
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m		3	2	5
Tin	ppm	ASTM D5185m	>4	0	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ррш	method	limit/base	current	history1	history2
					•	4
Boron	ppm		0	0	0	
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	55	60	71
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m	1010	833	924	1199
Calcium	ppm	ASTM D5185m	1070	995	988	1390
Phosphorus	ppm	ASTM D5185m	1150	948	964	1154
Zinc	ppm	ASTM D5185m	1270	1118	1184	1383
Sulfur	ppm	ASTM D5185m	2060	2894	2746	2662
CONTAMINAN	TS	method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	3	6	10
Sodium	ppm	ASTM D5185m		0	9	9
Potassium	ppm	ASTM D5185m	>20	2	3	10
		method	limit/base	current	history1	history2
INFRA-RED					0.0	4.0
	%	*ASTM D7844	>6	0.3	0.6	1.8
Soot %	% Abs/cm	*ASTM D7844 *ASTM D7624	>6 >20	0.3 6.4	0.6 11.7	1.8
INFRA-RED Soot % Nitration Sulfation						
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	6.4	11.7	13.9
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	6.4 18.7	11.7 23.6	13.9 27.4



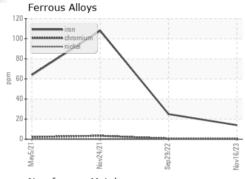
OIL ANALYSIS REPORT

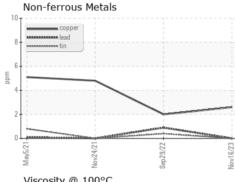


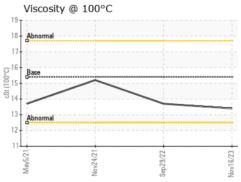
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

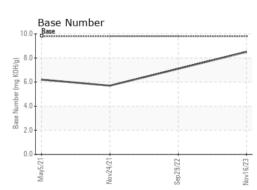
FLUID PROPE	EKIIES	method	ilmivbase		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.7	15.2

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10750973

: GFL0101599 : 06011829 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Nov 2023 Diagnosed : 21 Nov 2023

Diagnostician : Wes Davis

GFL Environmental - 415 - Michigan East

6200 Elmridge 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)