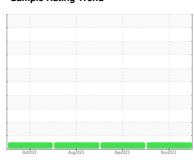


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 793M Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

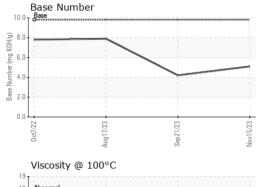
Fluid Condition

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

GAL)		0ct202	2 Aug2023	Sep 2023 No	ov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0059265	GFL0084943	GFL0084876
Sample Date		Client Info		15 Nov 2023	21 Sep 2023	17 Aug 2023
Machine Age	hrs	Client Info		16281	15874	15586
Oil Age	hrs	Client Info		407	288	2453
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	62	45	28
Chromium	ppm	ASTM D5185m	>20	2	1	1
Nickel	ppm	ASTM D5185m	>4	5	2	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	1	<1
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	14	37	2
Tin	ppm	ASTM D5185m	>15	2	3	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	6	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	67	68
Manganese	ppm	ASTM D5185m	0	1	2	<1
Magnesium	ppm	ASTM D5185m	1010	881	928	1049
Calcium	ppm	ASTM D5185m	1070	1033	1120	1217
Phosphorus	ppm	ASTM D5185m	1150	890	949	1080
Zinc	ppm	ASTM D5185m	1270	1199	1226	1332
Sulfur	ppm	ASTM D5185m	2060	1819	2692	3535
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	9	6
Sodium	ppm	ASTM D5185m		7	8	69
Potassium	ppm	ASTM D5185m	>20	2	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.3	0.9	1.3
Nitration	Abs/cm	*ASTM D7624	>20	10.9	10.1	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	22.5	21.1
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.4	20.0	16.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.1	4.2	7.9



OIL ANALYSIS REPORT

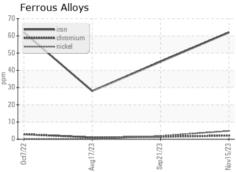


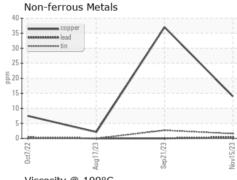
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance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

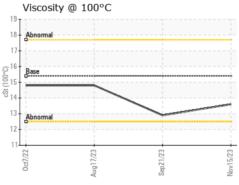
18 - Abnormal	 	 			 		
Base							
Base	 				 		
13 Abnormal			\	_	 _	_	_
12	 	 			 		

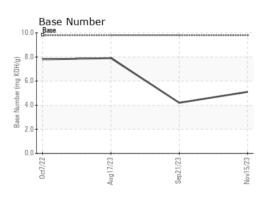
FLUID PROPERTIES Visc @ 100°C 13.6 12.9 14.8 cSt ASTM D445 15.4

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10749692 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0059265 : 06010548

Received Diagnosed Diagnostician : Sean Felton

: 17 Nov 2023 : 20 Nov 2023 GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184 Contact: Belal Dgheish

bdgheish@gflenv.com T: (734)714-2340

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)