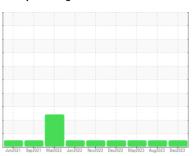


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **7812M**

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.

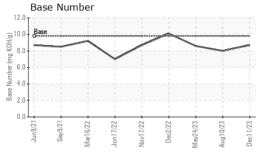
Fluid Condition

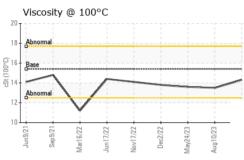
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL) Junido I Supido I Mudazo Junido Z Novido Z Decido Z Mujdo Z Augido Z Decido Z Mujdo Z Augido Z Decido Z							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0107028	GFL0091494	GFL0081300	
Sample Date		Client Info		11 Dec 2023	10 Aug 2023	24 May 2023	
Machine Age	hrs	Client Info		15131	14629	13981	
Oil Age	hrs	Client Info		600	600	600	
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	<1	20	40	
Chromium	ppm	ASTM D5185m	>20	0	1	2	
Nickel	ppm	ASTM D5185m	>4	<1	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	1	2	5	
Lead	ppm	ASTM D5185m	>40	<1	0	0	
Copper	ppm	ASTM D5185m	>330	0	<1	1	
Tin	ppm	ASTM D5185m	>15	0	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	3	4	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	54	62	60	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1024	948	969	
Calcium	ppm	ASTM D5185m	1070	1165	1091	1092	
Phosphorus	ppm	ASTM D5185m	1150	1106	1030	1050	
Zinc	ppm	ASTM D5185m	1270	1244	1264	1308	
Sulfur	ppm	ASTM D5185m	2060	3209	3531	3730	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	4	5	
Sodium	ppm	ASTM D5185m		0	8	6	
Potassium	ppm	ASTM D5185m	>20	<1	0	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.7	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	5.3	7.5	7.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	19.4	19.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	14.7	14.5	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	8.0	8.6	



OIL ANALYSIS REPORT

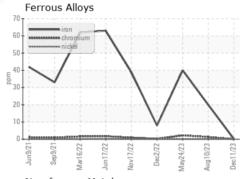


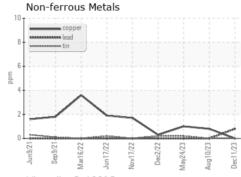


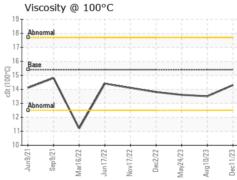
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

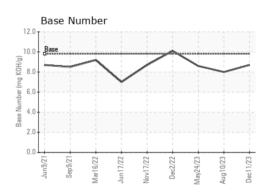
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	13.5	13.6

GRAPHS













Report Id: GFL465 [WUSCAR] 06035675 (Generated: 12/16/2023 04:56:16) Rev: 1

Laboratory Sample No. Lab Number Unique Number : 10790904 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0107028 : 06035675

Recieved Diagnosed

: 15 Dec 2023 : 16 Dec 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)