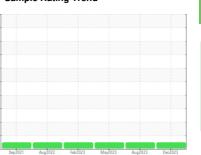


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 924015 Component Diesel Engine Fluid

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

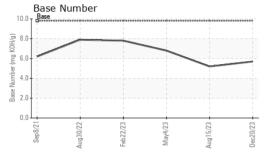
Fluid Condition

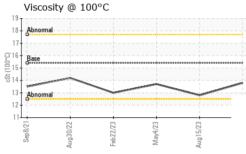
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Sep 2021	AUGZUZZ FEDZUZ3	May2023 Aug2023	Dec2023	
SAMPLE INFO	PRMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107062	GFL0091476	GFL0081243
Sample Date		Client Info		20 Dec 2023	15 Aug 2023	04 May 2023
Machine Age	hrs	Client Info		23848	22988	22296
Oil Age	hrs	Client Info		600	22296	600
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status		Olioni iilio		NORMAL	NORMAL	NORMAL
	ATION	method	limit/base	current	history1	history2
	THON				<1.0	
Fuel		WC Method	>3.0	<1.0 NEG		<1.0
Water			>0.2		NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	ALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	13	13	17
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	4	2	1
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm		>330	1	2	<1
Tin	ppm	ASTM D5185m	>15	<1	2	<1
Vanadium		ASTM D5185m	>10	0	<1	<1
	ppm			0	0	0
Cadmium	ppm	ASTM D5185m				
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	<1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	68	60	35
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1057	957	525
Calcium	ppm	ASTM D5185m	1070	1176	1099	2128
Phosphorus	ppm	ASTM D5185m	1150	967	954	1143
Zinc	ppm	ASTM D5185m	1270	1356	1213	1405
Sulfur	ppm	ASTM D5185m	2060	2800	2900	4149
CONTAMINA	ANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	6
Sodium	ppm	ASTM D5185m		8	9	6
Potassium	ppm	ASTM D5185m	>20	2	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.7	9.3	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	22.8	19.8
FLUID DEGR	ADATIO <u>N</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	19.7	13.9
Base Number (BN		ASTM D2896		5.7	5.2	6.8
Dase Mullipel (DI	ing Nong	AOTIVI DZ030	5.0	3.7	0.2	0.0



OIL ANALYSIS REPORT

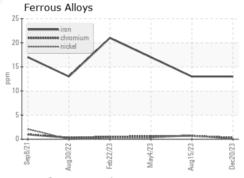


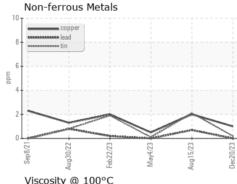


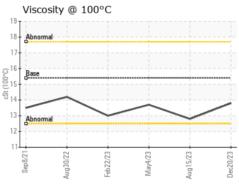
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

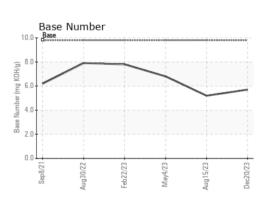
FLUID PROPE	RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	12.8	13.7

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10806484 Test Package : FLEET

: GFL0107062 : 06045876

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 27 Dec 2023 Diagnosed Diagnostician : Wes Davis

: 28 Dec 2023

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)