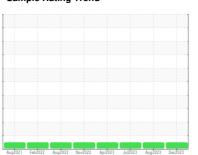


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 928050 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

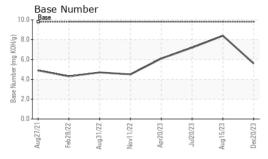
Fluid Condition

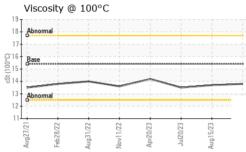
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

0.11.151.		Aug2021 F		22 Apr2023 Jul2023 Aug2023			
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0107063	GFL0091475	GFL0082750	
Sample Date		Client Info		20 Dec 2023	15 Aug 2023	20 Jul 2023	
Machine Age	hrs	Client Info		16550	15652	15517	
Oil Age	hrs	Client Info		600	600	600	
Oil Changed		Client Info		Not Changd	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	12	3	10	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>5	0	0	0	
Titanium	ppm	ASTM D5185m	>2	0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	<1	0	
Aluminum	ppm	ASTM D5185m	>20	3	2	2	
Lead	ppm	ASTM D5185m	>40	0	<1	0	
Copper	ppm	ASTM D5185m	>330	<1	<1	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	1	<1	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	59	61	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	942	975	962	
Calcium	ppm	ASTM D5185m	1070	1068	1100	1115	
Phosphorus	ppm	ASTM D5185m	1150	883	997	979	
Zinc	ppm	ASTM D5185m	1270	1208	1229	1229	
Sulfur	ppm	ASTM D5185m	2060	2541	3559	3156	
CONTAMINANTS method limit/base current history1 history2							
Silicon	ppm	ASTM D5185m	>25	6	4	5	
Sodium	ppm	ASTM D5185m		6	3	5	
Potassium	ppm	ASTM D5185m	>20	2	1	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.6	0.2	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	8.9	5.5	7.8	
Sulfation	Abs/.1mm	*ASTM D7624	>30	21.0	18.3	19.7	
FLUID DEGRAI			limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	14.1	15.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.6	8.4	7.2	



OIL ANALYSIS REPORT

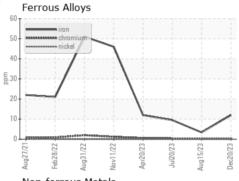


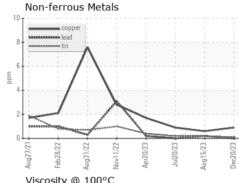


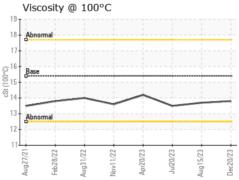
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

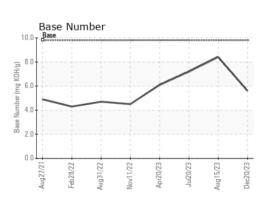
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.7	13.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10806483

: GFL0107063 : 06045875

: 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)