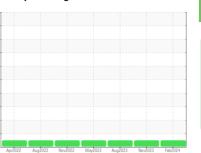


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 927055 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

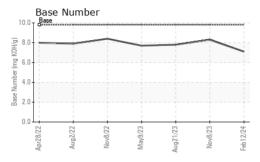
Fluid Condition

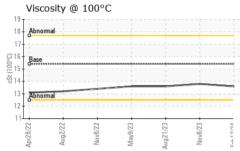
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

,		Apr2022	Aug2022 Nov2022	May2023 Aug2023 Nov2023	Feb2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092540	GFL0092525	GFL0092520
Sample Date		Client Info		12 Feb 2024	08 Nov 2023	21 Aug 2023
Machine Age	hrs	Client Info		16423	15842	15393
Oil Age	hrs	Client Info		581	449	602
Oil Changed		Client Info		Changed	Not Changd	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	23	8	14
Chromium	ppm	ASTM D5185m	>20	1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum		ASTM D5185m	>20	17	6	8
Lead	ppm	ASTM D5185m	>40	1	0	1
	ppm			6	1	4
Copper	ppm	ASTM D5185m	>330			
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	2	0
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	58	55	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	914	926	952
Calcium	ppm	ASTM D5185m	1070	1007	966	1065
Phosphorus	ppm	ASTM D5185m	1150	940	944	1014
Zinc	ppm	ASTM D5185m	1270	1175	1205	1211
Sulfur	ppm	ASTM D5185m	2060	3234	2855	2983
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	4	5
Sodium	ppm	ASTM D5185m		<1	3	3
Potassium	ppm	ASTM D5185m	>20	3	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.7	0.9
Nitration	Abs/cm	*ASTM D7624	>20	6.9	7.9	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	19.9	20.4
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	15.5	16.1
Base Number (BN)	mg KOH/g	ASTM D2896		7.1	8.3	7.8
					0.0	



OIL ANALYSIS REPORT

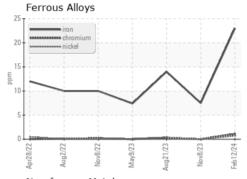


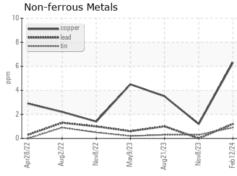


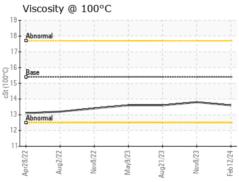
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

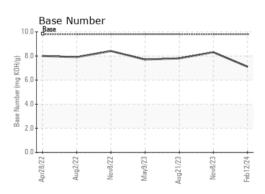
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.8	13.6

GRAPHS













Laboratory Sample No.

Test Package : FLEET

: GFL0092540 Lab Number : 06092222 Unique Number : 10885075

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Feb 2024 **Tested** : 19 Feb 2024

Diagnosed : 20 Feb 2024 - Don Baldridge

GFL Environmental - 935 - Omro HC 250 Alder Avenue

Omro, WI US 54963

Contact: Tim Kieffer tim.kieffer@gflenv.com T: (608)219-0288

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)

Report Id: GFL935 [WUSCAR] 06092222 (Generated: 02/21/2024 08:29:21) Rev: 1

Submitted By: See also GFL935 - Tim Kieffer