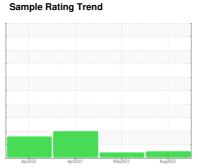


OIL ANALYSIS REPORT



Machine Id **913180** Component **Diesel Engine**

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





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

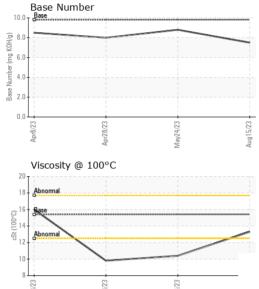
Fluid Condition

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

		Apr202	3 Apr2023	May2023 A	ug2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088402	GFL0070062	GFL0070036
Sample Date		Client Info		15 Aug 2023	24 May 2023	28 Apr 2023
Machine Age	hrs	Client Info		962	467	297
Oil Age	hrs	Client Info		467	297	0
Oil Changed		Client Info		Diff Oil	Not Changd	Not Changd
Sample Status				NORMAL	ATTENTION	ABNORMAL
CONTAMINAT	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	0.4
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron Chromium	ppm	ASTM D5185m	>120	17 <1	32	34
	ppm	ASTM D5185m	>20		<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	1	1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	1	1	<1
Aluminum	ppm		>20	1	4	3
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm		>330	19	79	29
Tin	ppm	ASTM D5185m	>15	1	4	3
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	215	320
Barium	ppm	ASTM D5185m	0	0	6	0
Molybdenum	ppm	ASTM D5185m	60	63	110	122
Manganese	ppm	ASTM D5185m	0	1	4	4
Magnesium	ppm	ASTM D5185m	1010	925	650	724
Calcium	ppm	ASTM D5185m	1070	1150	1208	1470
Phosphorus	ppm	ASTM D5185m	1150	968	646	723
Zinc	ppm	ASTM D5185m	1270	1190	768	919
Sulfur	ppm	ASTM D5185m	2060	3358	2301	2724
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	72	4 90
Sodium	ppm	ASTM D5185m		6	2	2
Potassium	ppm	ASTM D5185m	>20	2	6	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.5	9.4	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	24.0	23.3
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	20.0	20.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	8.8	8.0
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OIL ANALYSIS REPORT



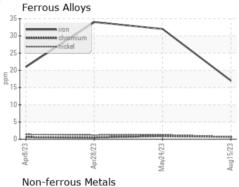
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
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13.3

10.4

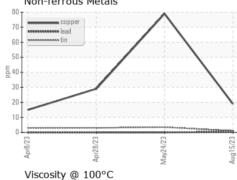
9.8

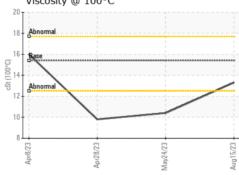
Visc @ 100°	С
GRAPHS	3

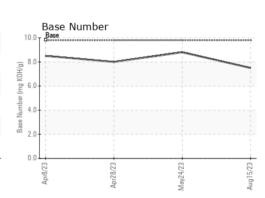


cSt

ASTM D445 15.4











Certificate L2367

Test Package : FLEET

Laboratory Sample No. Lab Number Unique Number : 10608549

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0088402 : 05928602

Received Diagnosed Diagnostician : Wes Davis

: 18 Aug 2023 : 20 Aug 2023 GFL Environmental - 084 - Clarksville

699 Jack Miller Boulevard Clarksville, TN US 37042

Contact: Destin Love

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)

F: (931)553-0641