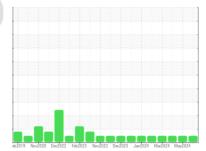


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 727066-310046

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (8 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

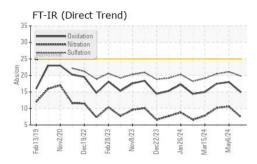
Fluid Condition

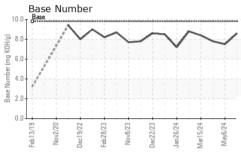
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

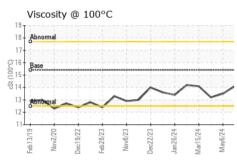
iAL)		eb 2019 Nov20	120 Dec2022 Feb2023 No	v2023 Dec2023 Jan2024 Mar2024	May2024				
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0112269	GFL0112195	GFL0112228			
Sample Date		Client Info		31 May 2024	06 May 2024	05 Apr 2024			
Machine Age	hrs	Client Info		17610	17451	17314			
Oil Age	hrs	Client Info		150	600	150			
Oil Changed		Client Info		Not Changd	Changed	Not Changd			
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	8	22	20			
Chromium	ppm	ASTM D5185m	>20	0	2	2			
Nickel	ppm	ASTM D5185m	>4	0	1	1			
Titanium	ppm	ASTM D5185m		0	<1	<1			
Silver	ppm	ASTM D5185m	>3	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	1	4	4			
Lead	ppm	ASTM D5185m	>40	0	1	1			
Copper	ppm	ASTM D5185m	>330	<1	2	1			
Tin	ppm	ASTM D5185m	>15	0	1	1			
Vanadium	ppm	ASTM D5185m		0	<1	<1			
Cadmium	ppm	ASTM D5185m		0	<1	<1			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	0	0	0			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	56	56	60			
Manganese	ppm	ASTM D5185m		0	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	916	901	976			
Calcium	ppm	ASTM D5185m	1070	1069	1014	1124			
Phosphorus	ppm	ASTM D5185m	1150	1019	1004	1069			
Zinc	ppm	ASTM D5185m	1270	1217	1186	1283			
Sulfur	ppm	ASTM D5185m	2060	3460	3099	3309			
CONTAMINAN	ITS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	0	9	8			
Sodium	ppm	ASTM D5185m		1	6	7			
Potassium	ppm	ASTM D5185m	>20	<1	4	3			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.7	0.9	0.8			
Nitration	Abs/cm	*ASTM D7624	>20	7.4	10.6	10.2			
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	21.1	20.5			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	18.0	17.5			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	7.5	7.8			

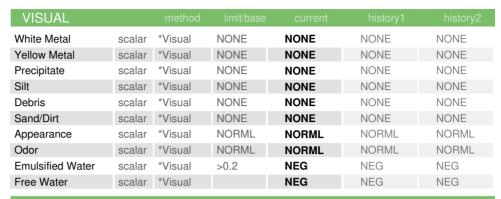


OIL ANALYSIS REPORT



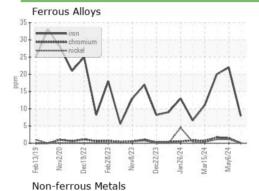




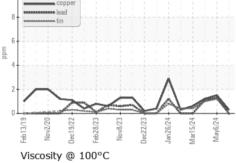


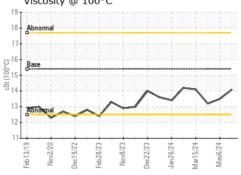
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.5	13.2

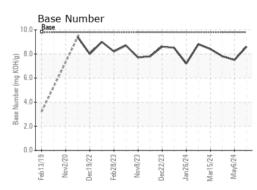
GRAPHS















Certificate 12367

Laboratory Sample No. Unique Number : 11061032 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0112269 Lab Number : 06198909

Received **Tested** Diagnosed

: 04 Jun 2024 : 05 Jun 2024 : 05 Jun 2024 - Wes Davis

GFL Environmental - 829 - Wilco Hauling 5054 Highway HH Hartville, MO

US 65667 Contact: James Jones james.jones@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (417)349-5006

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: GFL829 [WUSCAR] 06198909 (Generated: 06/05/2024 04:33:20) Rev: 1