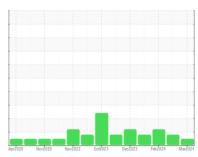


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 920092-260371

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

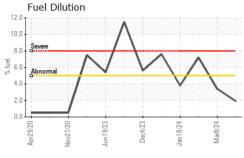
Fluid Condition

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

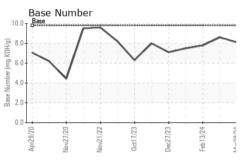
GAL)		Apr2020 1	Nov2020 Nov2022	Oct2023 Dec2023 Feb2024	Mar2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114131	GFL0114149	GFL0108081
Sample Date		Client Info		29 Mar 2024	08 Mar 2024	13 Feb 2024
Machine Age	hrs	Client Info		23907	23785	23641
Oil Age	hrs	Client Info		266	144	14809
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	MARGINAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	9	5	3
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	1
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	<1	0
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	55	49
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	872	876	786
Calcium	ppm	ASTM D5185m	1070	1024	1042	875
Phosphorus	ppm	ASTM D5185m	1150	1024	996	877
Zinc	ppm	ASTM D5185m	1270	1160	1157	1085
Sulfur	ppm	ASTM D5185m	2060	3066	3391	2556
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	2
Sodium	ppm	ASTM D5185m		4	5	2
Potassium	ppm	ASTM D5185m	>20	2	14	1
Fuel	%	ASTM D3524	>5	1.9	△ 3.4	△ 7.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.3	5.7	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	17.9	18.2
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
				oarront	,	,
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	13.4	13.4
Oxidation Base Number (BN)						

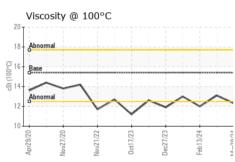


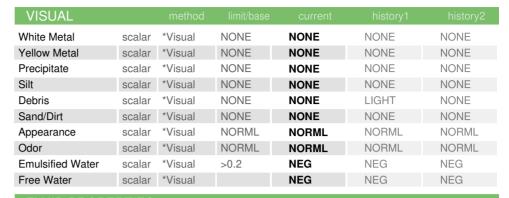
OIL ANALYSIS REPORT



	Oxidation Nitration Sulfation					
20-					Management of the latest	
15	_	\	_	<u> </u>		-
10						
5	State of the latest		W. S. Stern Supplemental St. Des. Co.	Managara and	Witness of the Parks of the Par	
Apr29/20	Nov27/20	Nov21/22	Oct17/23	Dec27/23 -	Feb13/24	

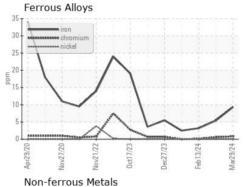


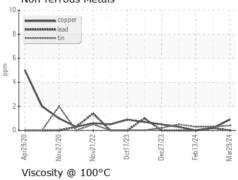


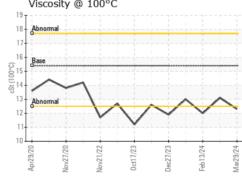


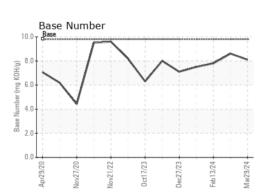
L LOID PROPI	ERITES	memoa			riistory i	Historyz
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	13.1	12.0

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0114131 Lab Number : 06174923 Unique Number : 11020976

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 May 2024 **Tested**

: 15 May 2024 Diagnosed

: 15 May 2024 - Wes Davis Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

22820 S State Route 291 Harrisonville, MO US 64701

GFL Environmental - 837 - Harrison TS

Contact: SARA PATRICK spatrick@gflenv.com T:

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.

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

Report Id: GFL837 [WUSCAR] 06174923 (Generated: 05/15/2024 19:26:55) Rev: 1

Submitted By: JEREMY BROWN

F: