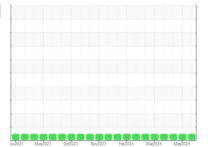


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

411026-411026

Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 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.

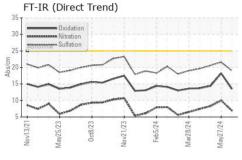
Fluid Condition

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

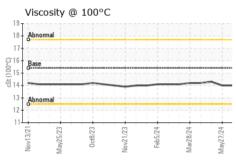
GAL) www.dozs octors Newtors February Marches Marches Marches						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123171	GFL0123155	GFL0104970
Sample Date		Client Info		02 Jul 2024	27 May 2024	07 May 2024
Machine Age	hrs	Client Info		0	7748	7599
Oil Age	hrs	Client Info		0	0	7005
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	TION	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
ron	ppm	ASTM D5185m	>100	7	4	14
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	8
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	0	0	<1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	56	54
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	876	929	868
Calcium	ppm	ASTM D5185m	1070	995	1071	950
Phosphorus	ppm	ASTM D5185m	1150	977	1049	944
Zinc	ppm	ASTM D5185m	1270	1176	1219	1141
Sulfur	ppm	ASTM D5185m	2060	2755	3531	3172
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	0	2
Sodium	ppm	ASTM D5185m		3	2	3
Potassium	ppm	ASTM D5185m	>20	5	3	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	8.0	0.5	1.4
Nitration	Abs/cm	*ASTM D7624	>20	6.9	10.0	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	21.6	20.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	18.2	14.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.4	8.4

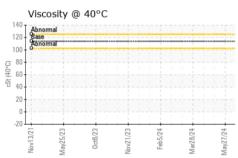


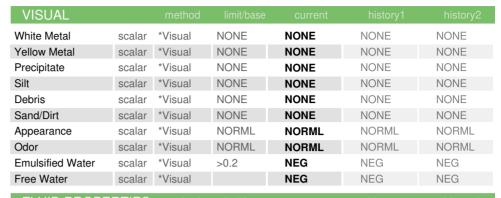
OIL ANALYSIS REPORT



	sity @	40°C				
Abnorm	ıal			77.77		
120 - Base	al					
100						
80 ي						
St (40°C)						
₹ 40		-1-1-4				
20						
0						
-20						
Nov13/21	May25/23	0ct8/23	Nov21/23	Feb5/24	Mar28/24	May27/24

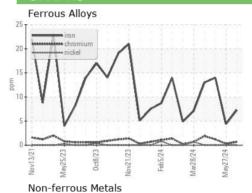


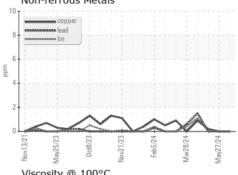


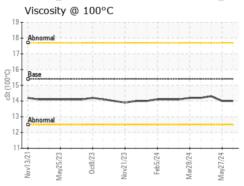


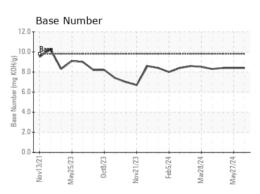
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.0	14.3

GRAPHS













Laboratory Sample No.

Lab Number : 06227000

: GFL0123171 Unique Number : 11110493

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

: 03 Jul 2024 : 05 Jul 2024 Diagnosed

: 05 Jul 2024 - Don Baldridge

Joplin, MO US 64801 Contact: James Jarrett jjarrett@gflenv.com T: (417)310-2802

GFL Environmental - 820 - Joplin Hauling

Certificate 12367

Test Package : FLEET (Additional Tests: KV40) 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)

3700 West 7th Street