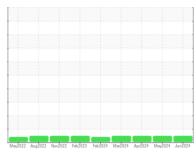


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 812034 Component

Component

Diesel Engine

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

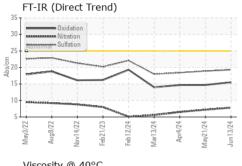
Fluid Condition

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

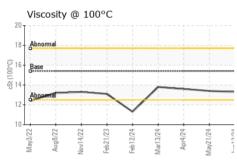
āAL)		May2022 Au	g2022 Nov2022 Feb2023	Feb 2024 Mar 2024 Apr 2024 May 21	124 Jun 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117927	GFL0117949	GFL0111944
Sample Date		Client Info		13 Jun 2024	21 May 2024	04 Apr 2024
Machine Age	hrs	Client Info		3787	3657	3509
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	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	>110	16	21	10
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		5	9	7
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	6	9	5
Lead	ppm	ASTM D5185m	>45	<1	<1	0
Copper	ppm	ASTM D5185m	>85	2	1	0
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	11	12	13
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	59	71	53
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	885	1172	892
Calcium	ppm	ASTM D5185m	1070	1135	1496	1153
Phosphorus	ppm	ASTM D5185m	1150	825	1494	1097
Zinc	ppm	ASTM D5185m	1270	1140	1717	1276
Sulfur	ppm	ASTM D5185m	2060	2894	4804	3834
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm		>30	13	7	5
Sodium	ppm	ASTM D5185m		<1	2	1
Potassium	ppm	ASTM D5185m	>20	5	6	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.2	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	18.9	18.4
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	14.7	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	8.5	8.8

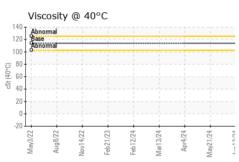


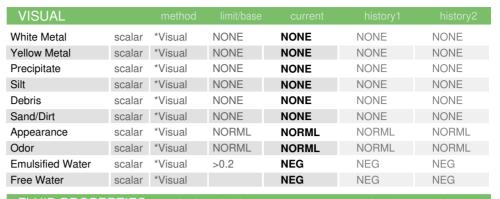
OIL ANALYSIS REPORT



	Visc	osity	e 40	0°C	ш.	2		Σ	J
140	Abno								
120	Abno	mal							
0.0									
St (40°C)									
- 40									
20	1								
-20	Ц								
	May3/22	Aug8/22	ov14/22	eb21/23	eb 12/24	lar13/24	Apr4/24	ay21/24	un13/24

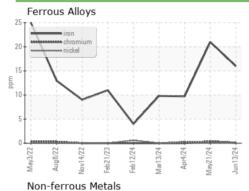


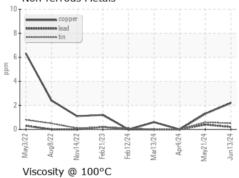


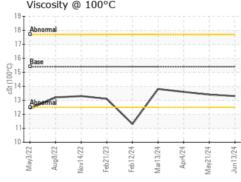


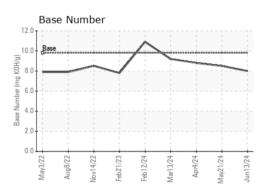
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.4	13.6

GRAPHS













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0117927 Lab Number : 06209854 Unique Number : 11082718

Received **Tested** Diagnosed

: 14 Jun 2024 : 17 Jun 2024 : 17 Jun 2024 - Angela Borella

GFL Environmental - 892 - Pauls Valley Hauling 1910 S CHICKASAW STREET

Pauls Valley, OK US 73075 Contact: Tony Graham

tgraham2@wcamerica.com

Test Package : FLEET (Additional Tests: KV40) Certificate 12367 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)

T:

F: