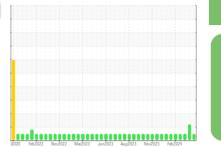


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 429048-402450

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.

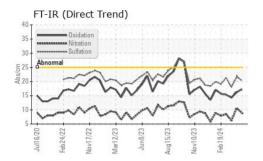
Fluid Condition

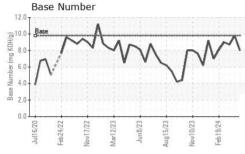
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

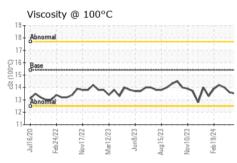
GAL)		12020 Feb20	22 Nov2022 Mar2023	Jun2023 Aug2023 Nov2023 F	eb 2024				
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0114066	GFL0114058	GFL0114034			
Sample Date		Client Info		18 Apr 2024	08 Apr 2024	18 Mar 2024			
Machine Age	hrs	Client Info		17885	18247	0			
Oil Age	hrs	Client Info		0	0	0			
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd			
Sample Status				NORMAL	ABNORMAL	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	8	19	4			
Chromium	ppm	ASTM D5185m	>4	<1	0	<1			
Nickel	ppm	ASTM D5185m	>2	0	0	<1			
Titanium	ppm	ASTM D5185m		0	0	<1			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>25	1	1	3			
Lead	ppm	ASTM D5185m	>45	0	21	<1			
Copper	ppm	ASTM D5185m	>85	2	<1	<1			
Tin	ppm	ASTM D5185m	>4	<1	0	<1			
Vanadium	ppm	ASTM D5185m		0	0	<1			
Cadmium	ppm	ASTM D5185m		0	0	<1			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	9	8	10			
Barium	ppm	ASTM D5185m	0	1	0	0			
Molybdenum	ppm	ASTM D5185m	60	58	86	55			
Manganese	ppm	ASTM D5185m	0	1	0	<1			
Magnesium	ppm	ASTM D5185m	1010	903	1004	850			
Calcium	ppm	ASTM D5185m	1070	1226	1197	1167			
Phosphorus	ppm	ASTM D5185m	1150	1050	1139	1015			
Zinc	ppm	ASTM D5185m	1270	1237	1274	1165			
Sulfur	ppm	ASTM D5185m	2060	3457	3876	3343			
CONTAMINANTS method limit/base current history1 history2									
Silicon	ppm	ASTM D5185m	>30	7	16	8			
Sodium	ppm	ASTM D5185m		3	<u>^</u> 724	2			
Potassium	ppm	ASTM D5185m	>20	2	7	2			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.4	1.1	0.1			
Nitration	Abs/cm	*ASTM D7624	>20	8.9	10.6	6.1			
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	21.7	18.0			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	16.2	14.3			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	9.8	8.7			

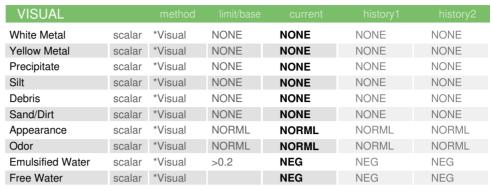


OIL ANALYSIS REPORT



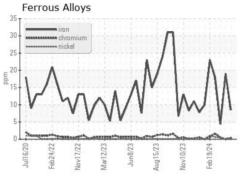


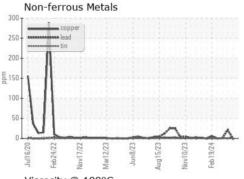


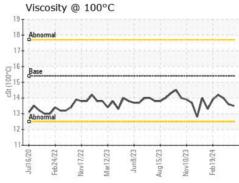


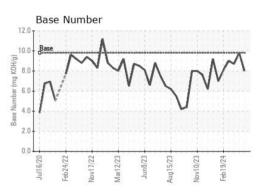
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.6	14.0	

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06155757 Unique Number : 10991180

Test Package : FLEET

: GFL0114066

Received : 22 Apr 2024 **Tested** : 23 Apr 2024 Diagnosed

: 23 Apr 2024 - Wes Davis

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO

US 64126 Contact: Loyce Stewart

loyce.stewart@gflenv.com T:

* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Report Id: GFL836 [WUSCAR] 06155757 (Generated: 04/23/2024 11:42:47) Rev: 1

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