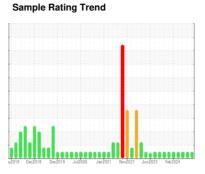


OIL ANALYSIS REPORT

(62A1N88) ALEXANDER CITY 10818

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 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

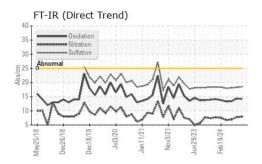
Fluid Condition

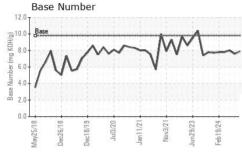
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

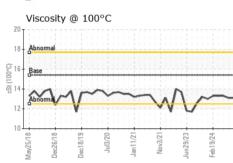
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0089926	GFL0089933	GFL0080722			
Sample Date		Client Info		02 Apr 2024	24 Mar 2024	04 Mar 2024			
Machine Age	hrs	Client Info		16507	16437	16252			
Oil Age	hrs	Client Info		2105	2035	0			
Oil Changed		Client Info		N/A	N/A	Not Changd			
Sample Status		CHOIL HIIO		NORMAL	NORMAL	NORMAL			
CONTAMINATION	ON	method	limit/base	current	history1	history2			
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0			
Water		WC Method		NEG	NEG	NEG			
Glycol		WC Method	7 U.L	NEG	NEG	NEG			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>75	8	12	9			
Chromium	ppm	ASTM D5185m	>5	0	0	0			
Nickel	ppm	ASTM D5185m	>4	0	0	0			
Titanium	ppm	ASTM D5185m	>2	0	0	0			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>15	2	2	2			
Lead	ppm	ASTM D5185m	>25	0	0	0			
Copper	ppm	ASTM D5185m	>100	0	<1	<1			
Tin	ppm	ASTM D5185m	>4	<1	0	0			
Vanadium	ppm	ASTM D5185m		0	0	<1			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	13	11	15			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	59	65	63			
Manganese	ppm	ASTM D5185m	0	<1	0	0			
Magnesium	ppm	ASTM D5185m	1010	862	1010	885			
Calcium	ppm	ASTM D5185m	1070	1033	1185	1065			
Phosphorus	ppm	ASTM D5185m	1150	942	1094	943			
Zinc	ppm	ASTM D5185m	1270	1140	1358	1136			
Sulfur	ppm	ASTM D5185m	2060	3069	4023	2888			
CONTAMINANT	rs _	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	5	5	5			
Sodium	ppm	ASTM D5185m		32	27	24			
Potassium	ppm	ASTM D5185m	>20	0	0	0			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>6	0.3	0.3	0.3			
Nitration	Abs/cm	*ASTM D7624	>20	7.9	7.8	6.9			
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	18.3	18.1			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	14.3	13.4			
	mg KOH/g	ASTM D2896	9.8	7.9	7.6	8.0			

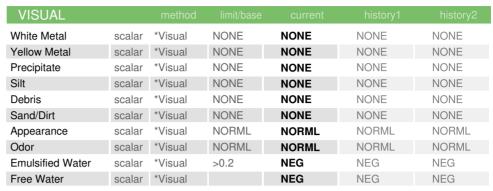


OIL ANALYSIS REPORT



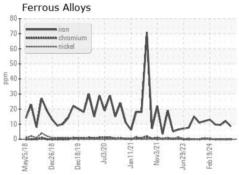


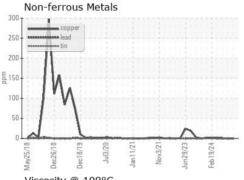


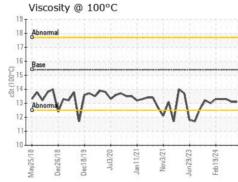


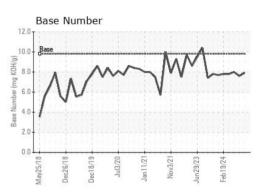
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.1	13.3

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06144928

Test Package : FLEET

: GFL0089926 Unique Number : 10969736

Received **Tested** Diagnosed

: 10 Apr 2024 : 11 Apr 2024 : 11 Apr 2024 - Wes Davis

GFL Environmental - 172 - Montgomery-Alexander City-Tallahassee

Multiple Sites Montgomery, AL US 36108

Contact: BRANDON HURST brandonhurst@gflenv.com

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)

Report Id: GFL172 [WUSCAR] 06144928 (Generated: 04/11/2024 14:35:15) Rev: 1

Submitted By: Lisa Reeves

T:

F: