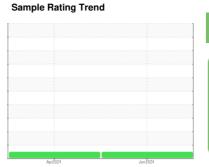


OIL ANALYSIS REPORT



NORMAL



Machine Id 229047 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

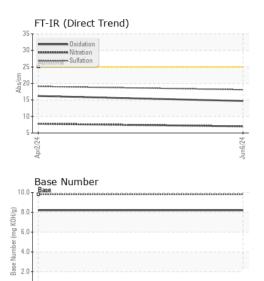
Fluid Condition

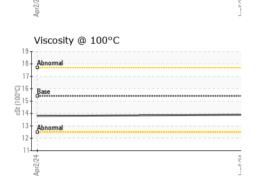
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

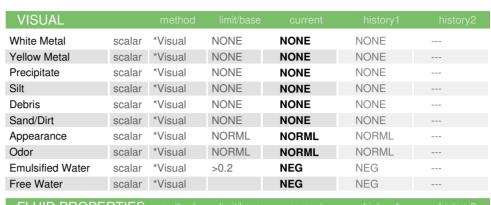
GAL)			Apr2024	JunŽ024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0121229	GFL0118608	
Sample Date		Client Info		06 Jun 2024	02 Apr 2024	
Machine Age	mls	Client Info		287163	0	
Oil Age	mls	Client Info		0	5000	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	6	13	
Chromium	ppm	ASTM D5185m	>4	0	<1	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>25	2	2	
Lead	ppm	ASTM D5185m	>45	<1	1	
Copper	ppm	ASTM D5185m		0	<1	
Tin	ppm	ASTM D5185m	>4	0	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	2	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	54	62	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	946	961	
Calcium	ppm	ASTM D5185m	1070	1159	1208	
Phosphorus	ppm	ASTM D5185m	1150	1094	1074	
Zinc	ppm	ASTM D5185m	1270	1293	1284	
Sulfur	ppm	ASTM D5185m	2060	3734	3412	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	3	5	
Sodium	ppm	ASTM D5185m		4	0	
Potassium	ppm	ASTM D5185m	>20	4	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	7.0	7.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	19.1	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	16.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	8.2	



OIL ANALYSIS REPORT

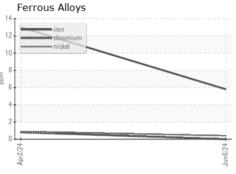


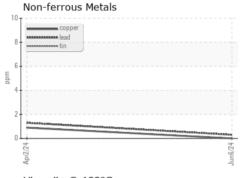


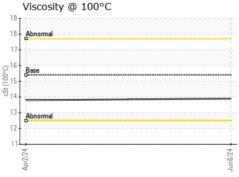


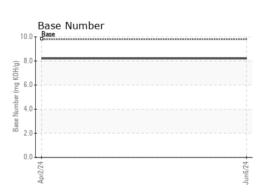
FLUID PROP	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.8	

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06215374 Unique Number : 11088238

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0121229

Tested Diagnosed Test Package : FLEET

Received : 20 Jun 2024 : 21 Jun 2024 : 21 Jun 2024 - Wes Davis

GFL Environmental - 846 - Mayfield Hauling 3426 State Route 45

Mayfield, KY US 42066 Contact: Jack Lindsey jack.lindsey@gflenv.com T: (270)970-3690

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)