

OIL ANALYSIS REPORT

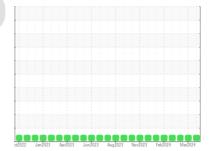
Sample Rating Trend



Machine Id

428099
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

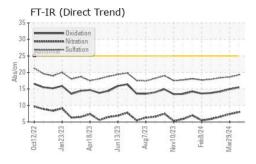
Fluid Condition

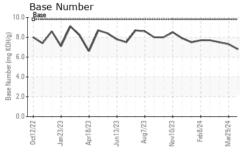
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

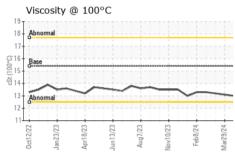
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0068855	GFL0111462	GFL0068901			
Sample Date		Client Info		17 Apr 2024	29 Mar 2024	06 Mar 2024			
Machine Age	nrs	Client Info		15459	15316	15167			
J	nrs	Client Info		143	520	371			
Oil Changed		Client Info		Not Changd	Changed	Not Changd			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINATIC	N	method	limit/base	current	history1	history2			
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0			
Water		WC Method	>0.2	NEG	NEG	NEG			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METALS		method	limit/base	current	history1	history2			
	opm	ASTM D5185m	>120	10	5	0			
		ASTM D5105m	>20	<1	<1	<1			
	opm								
	opm	ASTM D5185m	>15	<1	0	0			
	opm	ASTM D5185m	>2	<1	0	0			
	opm	ASTM D5185m	>3	0	0	0			
	ppm	ASTM D5185m	>20	6	4	3			
	opm	ASTM D5185m	>40	<1	0	1			
Copper	opm	ASTM D5185m	>330	2	0	<1			
Tin p	pm	ASTM D5185m	>15	<1	<1	0			
Vanadium p	opm	ASTM D5185m		<1	0	<1			
Cadmium p	opm	ASTM D5185m		<1	0	<1			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	opm	ASTM D5185m	0	3	5	5			
Barium p	opm	ASTM D5185m	0	0	0	0			
Molybdenum p	opm	ASTM D5185m	60	57	55	54			
Manganese p	opm	ASTM D5185m	0	<1	<1	<1			
Magnesium p	opm	ASTM D5185m	1010	906	887	930			
Calcium	opm	ASTM D5185m	1070	1028	967	1017			
Phosphorus p	opm	ASTM D5185m	1150	1033	969	974			
	opm	ASTM D5185m	1270	1197	1152	1198			
Sulfur p	ppm	ASTM D5185m	2060	3123	3164	2890			
CONTAMINANT	S	method	limit/base	current	history1	history2			
Silicon p	opm	ASTM D5185m	>25	9	6	6			
Sodium p	opm	ASTM D5185m		4	3	2			
Potassium p	opm	ASTM D5185m	>20	19	11	9			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>4	0.4	0.3	0.2			
	Abs/cm	*ASTM D7624	>20	8.0	7.4	6.6			
	Abs/.1mm	*ASTM D7415	>30	19.3	18.6	18.4			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation A	Abs/.1mm	*ASTM D7414	>25	15.5	14.9	14.2			
	11/0/.1111111	10 HV D/414	/	10.0	17.0	17.4			
	ng KOH/g	ASTM D2896	9.8	6.8	7.3	7.5			

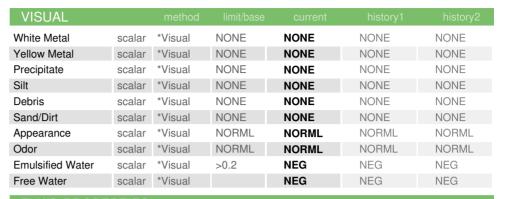


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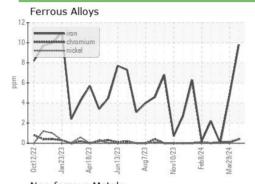


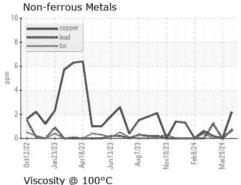


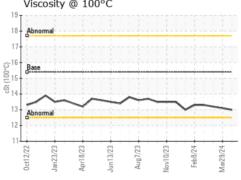


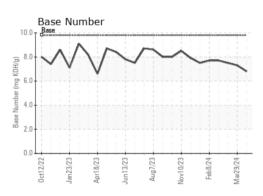
FLUID PROPE	RHES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	13.1	13.2

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06155049 Unique Number : 10990472 Test Package : FLEET

: GFL0068855

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Apr 2024 **Tested** Diagnosed

: 22 Apr 2024 : 22 Apr 2024 - Wes Davis

GFL Environmental - 073 - Warner Robins - Transwaste

155 Story Road Warner Robins, GA US 31093

Contact: JOSH MALONEY

jmaloney@gflenv.com T:

 st - 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)

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