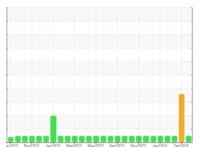


OIL ANALYSIS REPORT

Sample Rating Trend









(00691H8)
811055
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (9 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

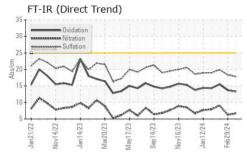
Fluid Condition

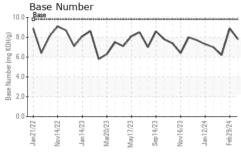
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

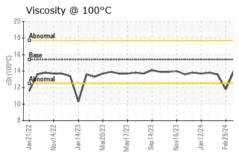
SAMPLE INFORI	MATION		li.ee:4/le.e.e.		المراجعة المراجعة	history O	
	VIATION		limit/base		history1	history2	
Sample Number		Client Info		GFL0099015	GFL0098864	GFL0099028	
Sample Date		Client Info		21 Mar 2024	29 Feb 2024	12 Feb 2024	
Machine Age	hrs	Client Info		6384	6384	6226	
Oil Age	hrs	Client Info		3826	3826	3826	
Oil Changed		Client Info		Diff Oil	N/A	Diff Oil	
Sample Status				NORMAL	ABNORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<u>2.1</u>	<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	>120	9	16	16	
Chromium	ppm	ASTM D5185m	>20	0	<1	<1	
Nickel	ppm	ASTM D5185m	>5	<1	0	<1	
Titanium	ppm	ASTM D5185m	>2	<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	1	3	1	
Lead	ppm	ASTM D5185m	>40	0	4	0	
Copper	ppm	ASTM D5185m	>330	<1	<1	2	
Tin	ppm	ASTM D5185m	>15	0	0	<1	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	1	<1	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	57	72	55	
Manganese	ppm	ASTM D5185m	0	<1	0	<1	
Magnesium	ppm	ASTM D5185m	1010	962	981	845	
Calcium	ppm	ASTM D5185m	1070	1124	1149	968	
Phosphorus	ppm	ASTM D5185m	1150	1022	1199	948	
Zinc	ppm	ASTM D5185m	1270	1289	1283	1143	
Sulfur	ppm	ASTM D5185m	2060	3788	3676	2529	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	3	4	3	
Sodium	ppm	ASTM D5185m		2	<u>128</u>	2	
Potassium	ppm	ASTM D5185m	>20	2	▲ 80	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.4	0.4	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.3	9.1	
Sulfation	Abs/.1mm	*ASTM D7415		17.8	18.4	19.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	13.7	15.5	
CAIGUIOII	/ 100/ . [[[[[]	, 10 I III D I T I T	~	. 5.5	10.7	10.0	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	8.9	6.2	



OIL ANALYSIS REPORT



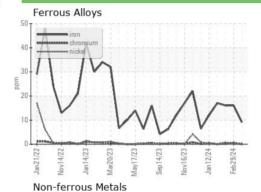


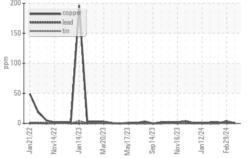


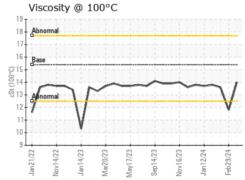
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

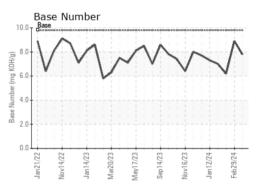
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	11.8	13.6	

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06142067

Test Package : FLEET

: GFL0099015 Unique Number : 10966875

Received : 08 Apr 2024 **Tested** : 09 Apr 2024 Diagnosed

: 09 Apr 2024 - Wes Davis

GFL Environmental - 084 - Clarksville

699 Jack Miller Boulevard Clarksville, TN US 37042

Contact: ROBERT THIBAULT robert.thibault@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.

T: (931)552-7276 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (931)572-9674

Report Id: GFL084 [WUSCAR] 06142067 (Generated: 04/09/2024 15:35:29) Rev: 1