

OIL ANALYSIS REPORT

(YA163827) 411024

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

Sample Rating Trend



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

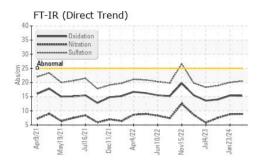
Fluid Condition

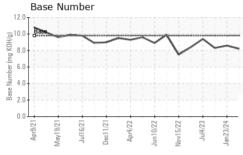
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

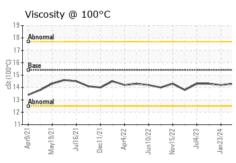
GAL)									
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0116012	GFL0089977	GFL0080518			
Sample Date		Client Info		18 Jun 2024	23 Jan 2024	13 Oct 2023			
Machine Age	hrs	Client Info		18699	18699	1317			
Oil Age	hrs	Client Info		0	1317	0			
Oil Changed		Client Info		Not Changd	Not Changd	Changed			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>165	9	10	6			
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1			
Nickel	ppm	ASTM D5185m	>4	0	0	<1			
Titanium	ppm	ASTM D5185m	>2	<1	<1	0			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	6	3	0			
Lead	ppm	ASTM D5185m	>150	0	<1	<1			
Copper	ppm	ASTM D5185m	>90	0	<1	<1			
Tin	ppm	ASTM D5185m	>5	<1	<1	<1			
Vanadium	ppm	ASTM D5185m		0	<1	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	5	2	<1			
Barium	ppm	ASTM D5185m	0	0	0	2			
Molybdenum	ppm	ASTM D5185m	60	58	58	60			
Manganese	ppm	ASTM D5185m	0	<1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	951	884	828			
Calcium	ppm	ASTM D5185m	1070	1060	1069	1028			
Phosphorus	ppm	ASTM D5185m	1150	1054	974	955			
Zinc	ppm	ASTM D5185m	1270	1255	1148	1114			
Sulfur	ppm	ASTM D5185m	2060	3565	2548	2828			
CONTAMINANTS method limit/base current history1 history2									
Silicon	ppm	ASTM D5185m	>35	4	3	2			
Sodium	ppm	ASTM D5185m		4	4	<1			
Potassium	ppm	ASTM D5185m	>20	14	8	8			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>7.5	1.1	1.1	0.7			
Nitration	Abs/cm	*ASTM D7624	>20	8.9	8.8	7.5			
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	20.0	18.9			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	15.4	14.0			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	8.6	8.3			
(211)									

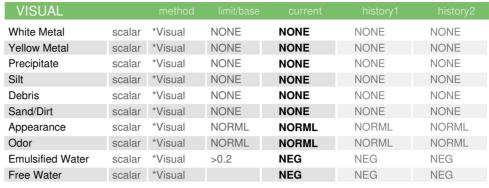


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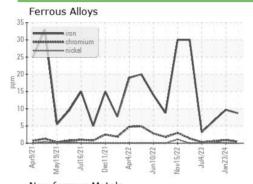


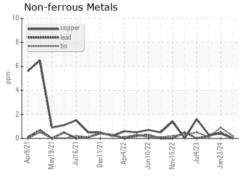


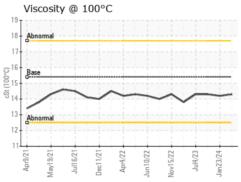


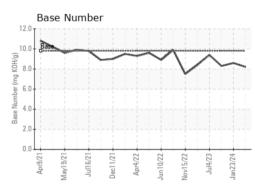
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.2	14.3

GRAPHS













Certificate 12367

Laboratory Sample No. Unique Number : 11087327

: GFL0116012 Lab Number : 06214463

Test Package : FLEET

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

: 20 Jun 2024 Diagnosed : 20 Jun 2024 - Wes Davis

GFL Environmental - 018 - Fayetteville

4621 Marracco Drive Hope Mills, NC US 28348

Contact: Robert Carter robert.carter@gflenv.com T: (910)596-1170

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)