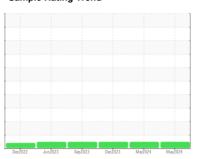


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
412064
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

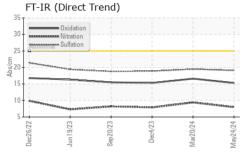
Fluid Condition

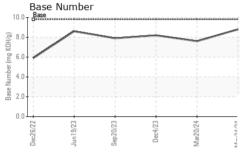
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

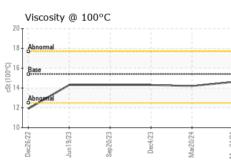
GAL)		Dec2022	Jun2023 Sep2023	3 Dec2023 Mar2024	May2024			
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0116151	GFL0116161	GFL0092604		
Sample Date		Client Info		24 May 2024	20 Mar 2024	04 Dec 2023		
Machine Age	hrs	Client Info		3662	3265	2631		
Oil Age	hrs	Client Info		397	634	612		
Oil Changed		Client Info		Changed	Changed	Not Changd		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2		
Fuel		WC Method	>5	<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	>110	12	15	12		
Chromium	ppm	ASTM D5185m	>4	0	<1	<1		
Nickel	ppm	ASTM D5185m	>2	0	<1	0		
Titanium	ppm	ASTM D5185m		0	<1	0		
Silver	ppm	ASTM D5185m	>2	<1	0	0		
Aluminum	ppm	ASTM D5185m	>25	3	5	7		
Lead	ppm	ASTM D5185m	>45	0	1	0		
Copper	ppm	ASTM D5185m	>85	<1	2	<1		
Tin	ppm	ASTM D5185m	>4	0	1	0		
Vanadium	ppm	ASTM D5185m		0	<1	0		
Cadmium	ppm	ASTM D5185m		0	<1	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	0	0	0		
Barium	ppm	ASTM D5185m	0	0	1	0		
Molybdenum	ppm	ASTM D5185m	60	64	64	63		
Manganese	ppm	ASTM D5185m		<1	<1	0		
Magnesium	ppm	ASTM D5185m	1010	1134	1009	1006		
Calcium	ppm	ASTM D5185m	1070	1224	1278	1089		
Phosphorus	ppm	ASTM D5185m	1150	1201	1164	1015		
Zinc	ppm	ASTM D5185m	1270	1498	1394	1307		
Sulfur	ppm	ASTM D5185m	2060	4085	3744	3062		
CONTAMINAN	ITS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>30	6	8	7		
Sodium	ppm	ASTM D5185m		0	0	3		
Potassium	ppm	ASTM D5185m	>20	4	11	15		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	8.0	9.4	7.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	19.5	18.9		
FLUID DEGRADATION method limit/base current history1 history2								
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	16.6	15.3		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	7.6	8.2		
, ,	0							

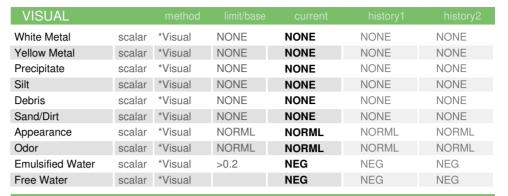


OIL ANALYSIS REPORT



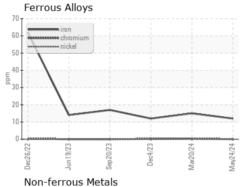


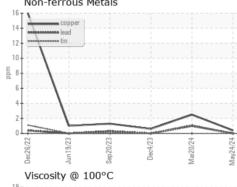


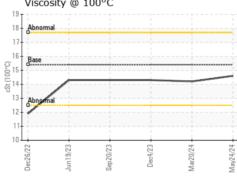


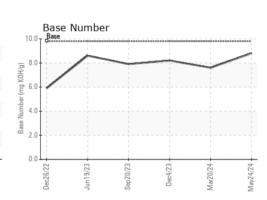
FLUID PROPI	ERIIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.6	14.2	14.3

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06193221 Unique Number : 11049973

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0116151

Test Package : FLEET

Received : 28 May 2024 **Tested** : 30 May 2024 Diagnosed

: 30 May 2024 - Wes Davis

GFL Environmental - 947 - WB Horicon HC N7296 County Rd V

Horicon, WI US 53032

Contact: Tim Kieffer tim.kieffer@gflenv.com T: (608)219-0288

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)