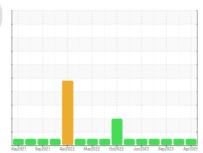


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 429054-402459

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- LTR)

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

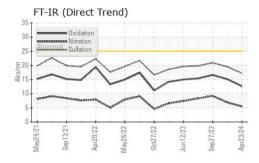
Fluid Condition

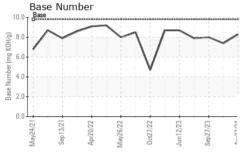
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

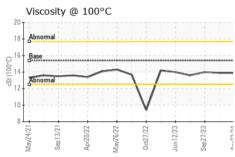
LIK)		vlay2021 Se	p2021 Apr2022 May203	22 Oct2022 Jun2023 Sep20	23 Apr2024				
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0092594	GFL0092583	GFL0092555			
Sample Date		Client Info		23 Apr 2024	03 Jan 2024	27 Sep 2023			
Machine Age	hrs	Client Info		12659	12082	11562			
Oil Age	hrs	Client Info		600	600	600			
Oil Changed		Client Info		Changed	Changed	Changed			
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	3	8	13			
Chromium	ppm	ASTM D5185m	>4	0	<1	<1			
Nickel	ppm	ASTM D5185m	>2	0	<1	0			
Titanium	ppm	ASTM D5185m		0	0	0			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>25	<1	5	<1			
Lead	ppm	ASTM D5185m	>45	0	<1	2			
Copper	ppm	ASTM D5185m	>85	0	2	3			
Tin	ppm	ASTM D5185m	>4	<1	<1	<1			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	2	4	113			
Barium	ppm	ASTM D5185m	0	0	0	0			
Molybdenum	ppm	ASTM D5185m	60	48	59	73			
Manganese	ppm	ASTM D5185m	0	0	<1	1			
Magnesium	ppm	ASTM D5185m	1010	808	856	920			
Calcium	ppm	ASTM D5185m	1070	1231	1065	1430			
Phosphorus	ppm	ASTM D5185m	1150	1034	991	1208			
Zinc	ppm	ASTM D5185m	1270	1215	1210	1462			
Sulfur	ppm	ASTM D5185m	2060	3546	3045	3570			
CONTAMINAN	ITS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>30	3	4	9			
Sodium	ppm	ASTM D5185m		2	4	4			
Potassium	ppm	ASTM D5185m	>20	2	2	4			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.5			
Nitration	Abs/cm	*ASTM D7624	>20	5.5	6.9	9.2			
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	19.5	20.9			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	15.1	16.6			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	7.4	8.0			
	0								

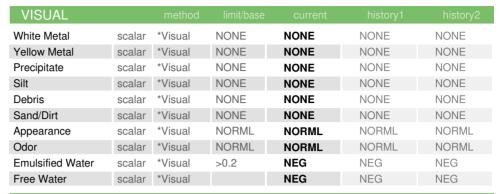


OIL ANALYSIS REPORT





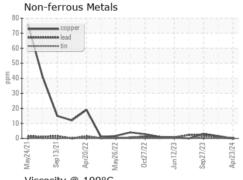


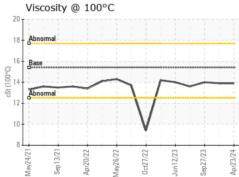


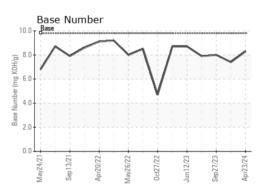
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.9	14.0

GRAPHS

Ferrous Alloys 20 E 15











Laboratory Sample No.

Lab Number : 06160153 Unique Number : 10995576

: GFL0092594

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Apr 2024 **Tested** : 26 Apr 2024 Diagnosed

: 26 Apr 2024 - Wes Davis

GFL Environmental - 885 - Orlando

1263 W Landstreet Rd Orlando, FL

US 32824

Contact: DAWN WALLACE

Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 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)

Report Id: GFL885 [WUSCAR] 06160153 (Generated: 04/26/2024 07:37:13) Rev: 1

Submitted By: TIMOTHY MOURER

T:

F: