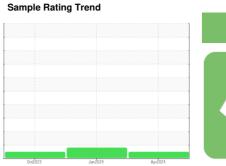


OIL ANALYSIS REPORT









Machine Id 720042-13039 Component

Diesel Engine

PETRO CANADA DURO

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

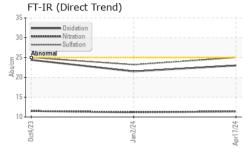
Fluid Condition

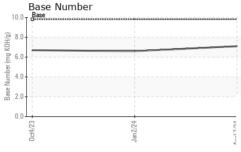
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

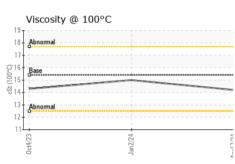
N SHP 15W40 (-	GAL)	0c	2023	Jan 2024 Apr 20	24				
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0103569	GFL0085345	GFL008533			
Sample Date		Client Info		17 Apr 2024	02 Jan 2024	04 Oct 2023			
/lachine Age	hrs	Client Info		27152	26603	26029			
Dil Age	hrs	Client Info		27152	26603	0			
Oil Changed		Client Info		Not Changd	N/A	N/A			
Sample Status				NORMAL	ATTENTION	NORMAL			
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2			
-uel		WC Method	>3.0	<1.0	<1.0	<1.0			
<i>N</i> ater		WC Method	>0.2	NEG	NEG	NEG			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METAL	_S	method	limit/base	current	history1	history2			
ron	ppm	ASTM D5185m	>120	14	40	12			
Chromium	ppm	ASTM D5185m	>20	<1	<1	0			
Nickel	ppm	ASTM D5185m	>5	<1	1	<1			
Γitanium	ppm	ASTM D5185m	>2	<1	<1	0			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	3	3	2			
ead	ppm	ASTM D5185m	>40	3	23	3			
Copper	ppm	ASTM D5185m	>330	2	3	<1			
Γin	ppm	ASTM D5185m	>15	2	5	<1			
/anadium	ppm	ASTM D5185m		<1	0	0			
Cadmium	ppm	ASTM D5185m		<1	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	5	5	4			
Barium	ppm	ASTM D5185m	0	<1	0	0			
Molybdenum	ppm	ASTM D5185m	60	67	72	64			
Manganese	ppm	ASTM D5185m	0	<1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	1063	1251	1112			
Calcium	ppm	ASTM D5185m	1070	1159	1332	1179			
Phosphorus	ppm	ASTM D5185m	1150	1107	1411	1167			
Zinc	ppm	ASTM D5185m	1270	1379	1697	1443			
Sulfur	ppm	ASTM D5185m	2060	3264	3762	3371			
CONTAMINAN	NTS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	5	9	5			
Sodium	ppm	ASTM D5185m		6	8	6			
Potassium	ppm	ASTM D5185m	>20	2	<1	2			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>4	0.3	0.7	0.3			
Nitration	Abs/cm	*ASTM D7624	>20	11.4	11.2	11.5			
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	23.2	25.0			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.0	21.5	24.4			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.1	6.6	6.7			

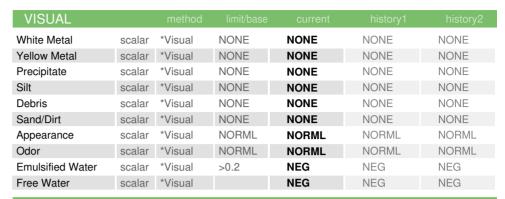


OIL ANALYSIS REPORT



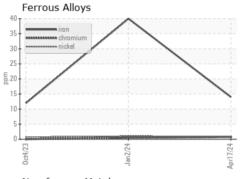


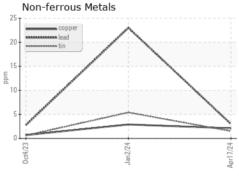


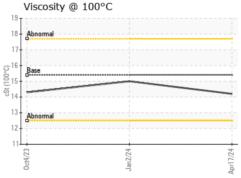


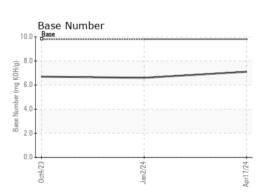
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	15.0	14.3

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0103569 Lab Number : 06156588

Test Package : FLEET

Unique Number : 10992011

Received : 22 Apr 2024 **Tested** Diagnosed

: 23 Apr 2024 : 23 Apr 2024 - Wes Davis

GFL Environmental - 958A - Chillicothe Wigand

19908 N. State Rd 29 Chillicothe, IL US 61523

Contact: Bryan Link blink@gflenv.com T:

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)

F: