WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



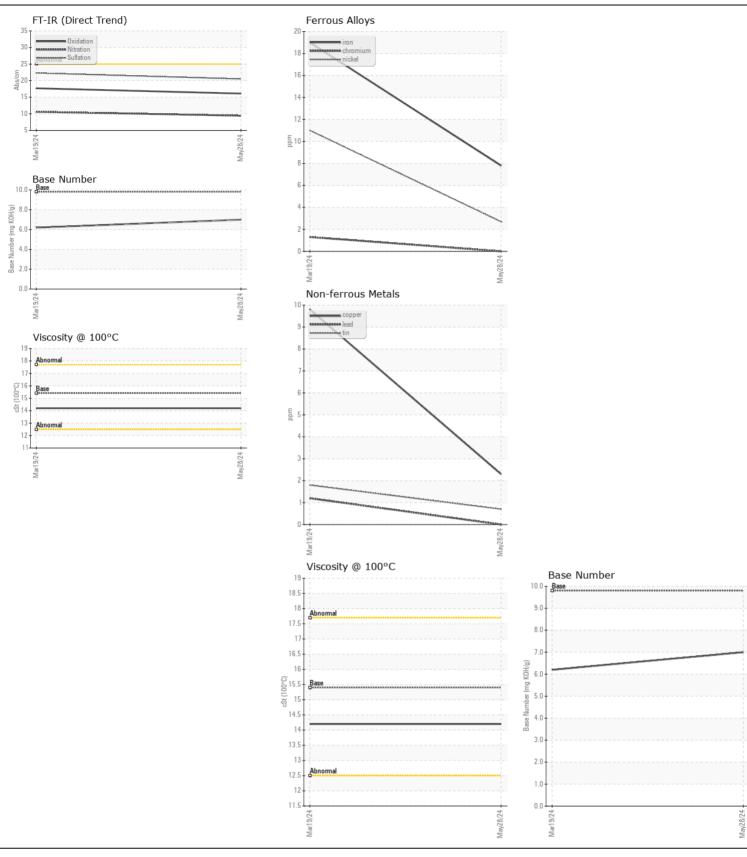
(BD33439)

413097 MACK GR64BR

Diesel Engine

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

Test	DECOMMENDATION	T+		N.A411	Line it /Allen	(a	L Control of	11:-1
Sample Date Cilent Info 28 May 2024 19 Mar 2024	RECOMMENDATION		UOIVI		LIMIT/ADN		,	
Machine Age hrs Cilent Info 236 226 326 Filter Age hrs Cilent Info 123 44 Filter Age hrs Cilent Info 123 44 Filter Changed Cilent Info 123 44 Cilent Info Changed Ch	Resample at the next service interval to monitor.	•						
Oil Age hrs Client Info 123 44			bro			-		
Filter Age Prise Client Info Changed Client Info Changed Chan		•						
Collaboration Collaboratio								
Filter Changed Sample Status			IIIS					
NORMAL N							_	
Iron		-		Ciletit IIIIO		_	Ü	
All component wear rates are normal. Chromium ppm ASTM D5165m >2 38 4 1		Sample Status				NORMAL	ADINONIVIAL	
Nicke ppm ASTM D5185m >2 3 11	WEAR	Iron	ppm	ASTM D5185m	>120	8	19	
Note ppm ASTMOSISES 2 88 92	All comments and an arranged	Chromium	ppm	ASTM D5185m	>20	0	1	
Silver ppm ASTM 05186m >2	All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	3	<u> </u>	
Aluminum ppm ASTM D5186m >20 2 5		Titanium	ppm	ASTM D5185m	>2	88	92	
Lead ppm ASTM DS185m 340 0 1		Silver	ppm	ASTM D5185m	>2	<1	<1	
Copper		Aluminum	ppm	ASTM D5185m	>20	2	5	
Tin		Lead	ppm	ASTM D5185m	>40	0	1	
Vanadium Vanadium		Copper	ppm	ASTM D5185m	>330	2	10	
White Metal Scalar *Visual NONE NO		Tin	ppm	ASTM D5185m	>15	<1	2	
Silicon ppm ASTM D5185m >25 5 8		Vanadium	ppm	ASTM D5185m		<1	1	
Potassium ppm ASTM D5185m 2-25 5 8		White Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium ppm ASTM D5185m >20 6 16		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium ppm ASTM D5185m >20 6 16	CONTAMINATION	0:::		AOTM DE405	05	_		
Fuel WC Method S3.0 <1.0 <1.0	CONTAMINATION							
Water WC Method So.0 NEG NEG	There is no indication of any contamination in the oil.		ppm					
Glycol	,							
Soot % % "ASTM D7844 >-4 0.2 0.4					>0.2			
Nitration			0/		. 1			
Sulfation Abs/.1mm *ASTM D7415 >30 20.5 22.3								
Silt scalar *Visual NONE NORML NORML								
Debris Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NORML NORML								
Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORM								
Appearance								
Codor Scalar *Visual NORML NORML NORML NORML NORML NEG								
Emulsified Water scalar *Visual >0.2 NEG NEG								
Sodium ppm ASTM D5185m 2 1								
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Boron ppm ASTM D5185m 0 0 2								
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Barium ppm ASTM D5185m 0 0 1 7	FLUID CONDITION		ppm			2		
oil. The condition of the oil is suitable for further service. Molybdenum ppm ASTM D5185m 60 1 7	The BN result indicates that there is suitable alkalinity remaining in the							
Molybdenum ppm ASTM D5185m 60 1 7 Manganese ppm ASTM D5185m 0 <1								
Magnesium ppm ASTM D5185m 1010 429 423 Calcium ppm ASTM D5185m 1070 1708 1746 Phosphorus ppm ASTM D5185m 1150 1034 1007 Zinc ppm ASTM D5185m 1270 1208 1180 Sulfur ppm ASTM D5185m 2060 4263 3739 Oxidation Abs/.1mm *ASTM D7414 >25 16.1 17.7 Base Number (BN) mg KOH/g ASTM D2896 9.8 7.0 6.2								
Calcium ppm ASTM D5185m 1070 1708 1746 Phosphorus ppm ASTM D5185m 1150 1034 1007 Zinc ppm ASTM D5185m 1270 1208 1180 Sulfur ppm ASTM D5185m 2060 4263 3739 Oxidation Abs/.1mm *ASTM D7414 >25 16.1 17.7 Base Number (BN) mg KOH/g ASTM D2896 9.8 7.0 6.2		-						
Phosphorus ppm ASTM D5185m 1150 1034 1007 Zinc ppm ASTM D5185m 1270 1208 1180 Sulfur ppm ASTM D5185m 2060 4263 3739 Oxidation Abs/.1mm *ASTM D7414 >25 16.1 17.7 Base Number (BN) mg KOH/g ASTM D2896 9.8 7.0 6.2		•						
Zinc ppm ASTM D5185m 1270 1208 1180 Sulfur ppm ASTM D5185m 2060 4263 3739 Oxidation Abs/.1mm *ASTM D7414 >25 16.1 17.7 Base Number (BN) mg KOH/g ASTM D2896 9.8 7.0 6.2								
Sulfur ppm ASTM D5185m 2060 4263 3739 Oxidation Abs/.1mm *ASTM D7414 >25 16.1 17.7 Base Number (BN) mg KOH/g ASTM D2896 9.8 7.0 6.2								
Oxidation Abs/.1mm *ASTM D7414 >25 16.1 17.7 Base Number (BN) mg KOH/g ASTM D2896 9.8 7.0 6.2								
Base Number (BN) mg KOH/g ASTM D2896 9.8 7.0 6.2								
VISC @ 100°C CST ASTM D445 15.4 14.2								
		visc @ 100°C	cst	ASTM D445	15.4	14.2	14.2	







Certificate L2367

Laboratory Sample No.

: GFL0110973 Lab Number : 06196477 Unique Number : 11058600 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024

Tested : 03 Jun 2024 Diagnosed : 03 Jun 2024 - Don Baldridge

GFL Environmental - 642B- MCM Disposal

10450 Pease Ave Byron Center, MI US 49315

Contact: Joshua VanVolkinburg

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)

T:

F: