WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ABNORMAL

Machine Id

EX0178

Diesel Engine

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA DURON UHP 5W40, however, a fluid match indicates that this fluid is SAE 10W30 Diesel Engine Oil. Please confirm the oil type and grade on your next sample. No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA DURON UHP 5W40, however, a fluid match indicates that this fluid is SAE 10W30 Diesel Engine Oil. Please confirm the oil type and grade on your next sample. No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA DURON UHP 5W40, however, a fluid match indicates that this fluid is SAE 10W30 Diesel Engine Oil. Please confirm the oil type and grade on your next sample. No corrective action in for the fluid was specified as PETRO Client Info	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date	No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA DURON UHP 5W40, however, a fluid match indicates that this fluid is SAE 10W30 Diesel Engine Oil. Please confirm the oil type		00				,	
Machine Age Nrs Client Info 3068 2135 1748 CANADA DURON UHE PWIND, Nowewer, a fluid match indicates that this fluid is SAE 10W30 Diesel Engine Oil. Please confirm the oil type and grade on your next sample. Please confirm the oil type Filter Age Nrs Client Info 0 500 0 0 0 0 0 0 0		•						
CANADA DURCN UHP SWM0, however, a fluid match indicates that this fluid is SAE 10w30 Diesel Engine Oil. Please confirm the oil type and grade on your next sample. Cilient Info		·	hrs	Client Info		•		1748
Filter Age Ns Client Info Changed Ch		Oil Age	hrs	Client Info		0	500	0
Filter Changed Client Info Changed ABMORMAL NORMAL NORMAL NORMAL NORMAL NORMAL		Filter Age	hrs	Client Info		0	500	0
Pron		Oil Changed		Client Info		Changed	Changed	Changed
Iron		Filter Changed		Client Info		Changed	Changed	Changed
All component wear rates are normal. Chromium ppm ASTM 05185m 2-0 2 -1 0 0 1 0 0 1 0 0 1 0 0		Sample Status				ABNORMAL	NORMAL	NORMAL
All component wear rates are normal. Chromium ppm ASTM 05185m 2-0 2 -1 0 0 1 0 0 1 0 0 1 0 0	WEAR	Iron	maa	ASTM D5185(m)	>100	30	14	4
Nickel ppm ASTM 05185(m) >4 0 <1 0		_		. ,				
Titanium ppm ASTM D5185m 3 0 0 0 0 0		Nickel				0	<1	0
Aluminum ppm ASTM D5185m >20 4 4 1		Titanium	ppm	ASTM D5185(m)		0	<1	<1
Lead ppm ASTM D5185 m >40 1 <1 <1 <1 <1 <1 <1 <1		Silver	ppm	ASTM D5185(m)	>3	0	0	0
Copper		Aluminum	ppm	ASTM D5185(m)	>20	4	4	1
Tin ppm ASTM D5185(m) >15 <1 0 0 0		Lead	ppm	ASTM D5185(m)	>40	1	<1	<1
Vanadium ppm ASTM D5185(m) 0 0 0 0		Copper	ppm	ASTM D5185(m)	>330	2	<1	<1
Silicon ppm ASTM D5185(m) >25 4 6 4		Tin	ppm		>15	<1	0	0
Potassium ppm ASTM D5185(m) >20 35 <1 0		Vanadium	ppm	ASTM D5185(m)		0	0	0
FLUID CONDITION Viscosity of sample indicates oil is within SAE 10W30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service. Fuel % ASTM D7583* >5 0.6 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG NEG NEG Soot % % ASTM D7922* 0.0 NEG	CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	4	6	
Water WC Method So.2 NEG NEG NEG	,							
Glycol % ASTM D7922* 0.0 NEG NEG			%		-			
Soot % % ASTM D7844* >3					>0.2			
Nitration Abs/cm ASTM D7624* > 20 10.5 9.1 6.9		•			0			
Sulfation Abs/.1mm ASTM.D7415* >30 24.1 20.8 20.0								
Emulsified Water scalar Visual* >0.2 NEG NEG NEG								
Sodium ppm ASTM D5185(m) 46 4 4								
Viscosity of sample indicates oil is within SAE 10W30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service. Boron								
investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service. Barium ppm ASTM D5185(m) 0 0 0 0	FLUID CONDITION		ppm	. ,				
Molybdenum ppm ASTM D5185(m) 65 24 57 54	investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is			, ,				
acceptable for the time in service. Manganese ppm ASTM D5185(m) 0 <1 <1 <1				. ,				
Magnesium ppm ASTM D5185(m) 1160 188 1061 1075 Calcium ppm ASTM D5185(m) 820 1994 922 847 Phosphorus ppm ASTM D5185(m) 1160 839 1061 1019 Zinc ppm ASTM D5185(m) 1260 1016 1195 1185 Sulfur ppm ASTM D5185(m) 3000 2925 2825 2884								
Calcium ppm ASTM D5185(m) 820 1994 922 847 Phosphorus ppm ASTM D5185(m) 1160 839 1061 1019 Zinc ppm ASTM D5185(m) 1260 1016 1195 1185 Sulfur ppm ASTM D5185(m) 3000 2925 2825 2884				. ,				
Phosphorus ppm ASTM D5185(m) 1160 839 1061 1019 Zinc ppm ASTM D5185(m) 1260 1016 1195 1185 Sulfur ppm ASTM D5185(m) 3000 2925 2825 2884		· ·		, ,				
Zinc ppm ASTM D5185(m) 1260 1016 1195 1185 Sulfur ppm ASTM D5185(m) 3000 2925 2825 2884								
Sulfur ppm ASTM D5185(m) 3000 2925 2825 2884		•						

Visc @ 40°C cSt

cSt

Viscosity Index (VI) Scale ASTM D2270* 169

Visc @ 100°C

ASTM D7279(m) 95.1

14.3

ASTM D7279(m)

90.9

14.5

166

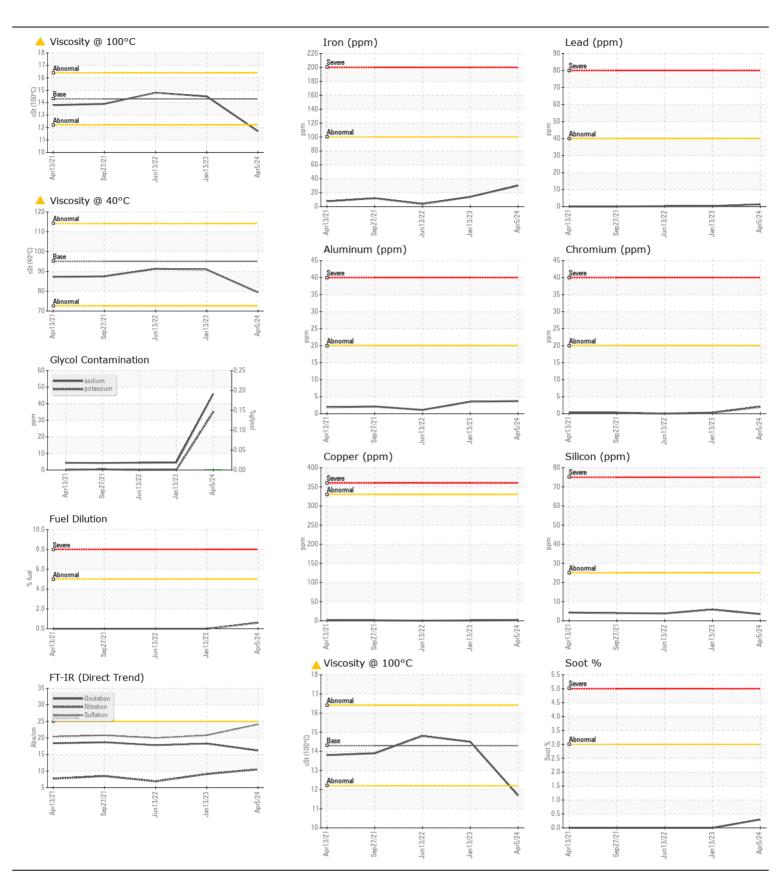
79.4

140

91.3

14.8

169





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations : PC0082034 Lab Number : 02628363

Unique Number : 5761495

Received **Tested** Diagnosed

: 12 Apr 2024 : 15 Apr 2024

: 15 Apr 2024 - Kevin Marson

151 Ram Forest Rd, Stouffville, ON CA L4A 2G8 Contact: Shannon Abbott

Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KV40, PercentFuel, VI) To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

sabbott@gipi.com T: (905)750-5900