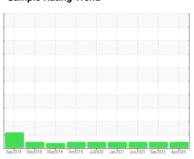


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id HINO 398275

Diesel Engine

PETRO CANADA DURON SHP 10W30 (16 QTS)

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

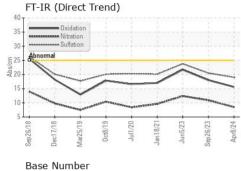
Fluid Condition

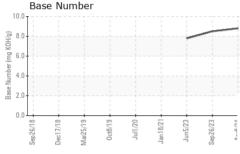
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

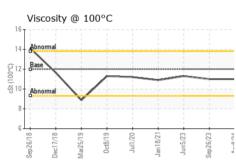
SAMPLE INFORMATION method limit/base current history1 history2	QTS)		Sep2018 Dec	2018 Mar2019 Oct2019	Jul2020 Jan2021 Jun2023 Sep203	23 Apr2024	
Sample Date	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Date Client Info 188324 174427 164729	Sample Number		Client Info		PCA0121430	PCA0105340	PCA0095802
Oil Age mls Client Info 188324 174427 164729 Oil Changed Client Info Changed NORMAL NIA Sample Status NORMAL NORMAL NORMAL NORMAL CONTAMINATION method Iimit/base current history2 Fuel WC Method 55 <1.0 <1.0 <1.0 Water WC Method S5 <1.0 <1.0 <1.0 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >20 <1 0 <1 Nickel ppm ASTM D5185m >20 <1 0 <1 Chromium ppm ASTM D5185m >20 <1 0 <1 Nickel ppm ASTM D5185m >20 <1 0 <1 Aluminum ppm ASTM D5185m >3 0 0 0 0 Aluminum ppm			Client Info		08 Apr 2024	26 Sep 2023	05 Jun 2023
Oil Changed Status Client Info Changed NORMAL N/A N/A CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5.5 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 10 13 18 Chromium ppm ASTM D5185m >20 <1 0 <1 Nickel ppm ASTM D5185m >20 <1 0 <1 Sliver ppm ASTM D5185m >20 2 4 3 Lead ppm ASTM D5185m >40 0 2 3 Copper ppm ASTM D5185m >330 9 1 2 Vanadium <th>Machine Age</th> <th>mls</th> <th>Client Info</th> <th></th> <th>188324</th> <th>174427</th> <th>164729</th>	Machine Age	mls	Client Info		188324	174427	164729
Sample Status	Oil Age	mls	Client Info		188324	174427	164729
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 NEG	Oil Changed		Client Info		Changed	Changed	N/A
Fuel	Sample Status				NORMAL	NORMAL	NORMAL
Water Glycol WC Method >0.2 NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 13 18 Chromium ppm ASTM D5185m >4 0 0 <1	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS	Water		WC Method	>0.2	NEG	NEG	NEG
Iron	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m ≥20 <1	WEAR METAL	_S	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>100	10	13	18
Titanium	Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >20 2 4 3 Lead ppm ASTM D5185m >40 0 2 3 Copper ppm ASTM D5185m >330 9 1 2 Tin ppm ASTM D5185m >15 <1	Nickel	ppm	ASTM D5185m	>4	0	0	<1
Aluminum	Titanium	ppm	ASTM D5185m		17	0	8
Lead	Silver	ppm	ASTM D5185m	>3	0	0	0
Copper ppm ASTM D5185m >330 9 1 2 Tin ppm ASTM D5185m >15 <1 1 1 Antimony ppm ASTM D5185m Vanadium ppm ASTM D5185m 0 <1 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 50 52 65 55 Magnesium ppm ASTM D5185m 950 898 1037 864 Calcium ppm ASTM D5185m 995 1174 1110 1021 Zinc ppm ASTM D5185m 995 1174 1110 1021	Aluminum	ppm	ASTM D5185m	>20	2	4	3
Tin ppm ASTM D5185m >15 <1	Lead	ppm	ASTM D5185m	>40	0	2	3
Antimony ppm ASTM D5185m Vanadium ppm ASTM D5185m 0 <1	Copper	ppm	ASTM D5185m	>330	9	1	2
Vanadium ppm ASTM D5185m 0 <1	Tin	ppm	ASTM D5185m	>15	<1	1	1
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 28 5 6 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 50 52 65 55 Manganese ppm ASTM D5185m 0 <1	Antimony	ppm	ASTM D5185m				
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2 28 5 6 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 50 52 65 55 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 950 898 1037 864 Calcium ppm ASTM D5185m 950 1269 1275 1210 Phosphorus ppm ASTM D5185m 995 1174 1110 1021 Zinc ppm ASTM D5185m 995 1312 1363 1219 Sulfur ppm ASTM D5185m 2600 4058 3226 3356 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m	Vanadium	ppm	ASTM D5185m		0	<1	0
Boron ppm ASTM D5185m 2 28 5 6 Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 50 52 65 55 Manganese ppm ASTM D5185m 90 <1	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 50 52 65 55 Manganese ppm ASTM D5185m 0 <1 <1 <1 Magnesium ppm ASTM D5185m 950 898 1037 864 Calcium ppm ASTM D5185m 1050 1269 1275 1210 Phosphorus ppm ASTM D5185m 1050 1269 1275 1210 Phosphorus ppm ASTM D5185m 995 1174 1110 1021 Zinc ppm ASTM D5185m 1180 1312 1363 1219 Sulfur ppm ASTM D5185m 2600 4058 3226 3356 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m 22 6 6 6 Potassium ppm A	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 50 52 65 55 Manganese ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m	2	28	5	6
Manganese ppm ASTM D5185m 0 <1	Barium	ppm	ASTM D5185m	0	0	0	0
Magnesium ppm ASTM D5185m 950 898 1037 864 Calcium ppm ASTM D5185m 1050 1269 1275 1210 Phosphorus ppm ASTM D5185m 995 1174 1110 1021 Zinc ppm ASTM D5185m 1180 1312 1363 1219 Sulfur ppm ASTM D5185m 2600 4058 3226 3356 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 3 4 Sodium ppm ASTM D5185m 2 6 6 Potassium ppm ASTM D5185m >20 0 4 5 INFRA-RED method limit/base current history1 history2 Soot % "ASTM D7844 >3 0.5 1 1.3 Nitration Abs/cm "ASTM D7415 >30 1	Molybdenum	ppm	ASTM D5185m	50	52	65	55
Calcium ppm ASTM D5185m 1050 1269 1275 1210 Phosphorus ppm ASTM D5185m 995 1174 1110 1021 Zinc ppm ASTM D5185m 1180 1312 1363 1219 Sulfur ppm ASTM D5185m 2600 4058 3226 3356 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 3 4 Sodium ppm ASTM D5185m 2 6 6 Potassium ppm ASTM D5185m >20 0 4 5 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 8.5 10.9 12.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.0 20.5 23.8 FLUID DEGRADATION method	Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Phosphorus ppm ASTM D5185m 995 1174 1110 1021 Zinc ppm ASTM D5185m 1180 1312 1363 1219 Sulfur ppm ASTM D5185m 2600 4058 3226 3356 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 3 4 Sodium ppm ASTM D5185m >20 0 4 5 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 1 1.3 Nitration Abs/cm *ASTM D7624 >20 8.5 10.9 12.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.0 20.5 23.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/	Magnesium	ppm	ASTM D5185m	950	898	1037	864
Zinc ppm ASTM D5185m 1180 1312 1363 1219 Sulfur ppm ASTM D5185m 2600 4058 3226 3356 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 3 4 Sodium ppm ASTM D5185m 2 6 6 Potassium ppm ASTM D5185m >20 0 4 5 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 1 1.3 Nitration Abs/cm *ASTM D7624 >20 8.5 10.9 12.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.0 20.5 23.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D74	Calcium	ppm	ASTM D5185m	1050	1269	1275	1210
Sulfur ppm ASTM D5185m 2600 4058 3226 3356 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 3 4 Sodium ppm ASTM D5185m 2 6 6 Potassium ppm ASTM D5185m >20 0 4 5 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 1 1.3 Nitration Abs/cm *ASTM D7624 >20 8.5 10.9 12.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.0 20.5 23.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 18.0 21.7	Phosphorus	ppm	ASTM D5185m	995	1174	1110	1021
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 4 3 4 Sodium ppm ASTM D5185m 2 6 6 Potassium ppm ASTM D5185m >20 0 4 5 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 1 1.3 Nitration Abs/cm *ASTM D7624 >20 8.5 10.9 12.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.0 20.5 23.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 18.0 21.7	Zinc	ppm	ASTM D5185m	1180	1312	1363	1219
Silicon ppm ASTM D5185m >25 4 3 4 Sodium ppm ASTM D5185m 2 6 6 Potassium ppm ASTM D5185m >20 0 4 5 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 1 1.3 Nitration Abs/cm *ASTM D7624 >20 8.5 10.9 12.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.0 20.5 23.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 18.0 21.7	Sulfur	ppm	ASTM D5185m	2600	4058	3226	3356
Sodium ppm ASTM D5185m 2 6 6 Potassium ppm ASTM D5185m >20 0 4 5 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 1 1.3 Nitration Abs/cm *ASTM D7624 >20 8.5 10.9 12.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.0 20.5 23.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 18.0 21.7	CONTAMINAN	NTS	method	limit/base	current		history2
Potassium ppm ASTM D5185m >20 0 4 5 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 1 1.3 Nitration Abs/cm *ASTM D7624 >20 8.5 10.9 12.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.0 20.5 23.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 18.0 21.7	Silicon	ppm	ASTM D5185m	>25	4		
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 1 1.3 Nitration Abs/cm *ASTM D7624 >20 8.5 10.9 12.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.0 20.5 23.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 18.0 21.7	Sodium	ppm	ASTM D5185m		2	6	6
Soot % % *ASTM D7844 >3 0.5 1 1.3 Nitration Abs/cm *ASTM D7624 >20 8.5 10.9 12.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.0 20.5 23.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 18.0 21.7	Potassium	ppm	ASTM D5185m	>20	0	4	5
Nitration Abs/cm *ASTM D7624 >20 8.5 10.9 12.4 Sulfation Abs/.1mm *ASTM D7415 >30 19.0 20.5 23.8 FLUID DEGRADATION method limit/base current current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 18.0 21.7	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 19.0 20.5 23.8 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 18.0 21.7	Soot %	%	*ASTM D7844	>3	0.5	1	1.3
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.6 18.0 21.7	Nitration	Abs/cm	*ASTM D7624	>20	8.5	10.9	12.4
Oxidation Abs/.1mm *ASTM D7414 >25 15.6 18.0 21.7	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	20.5	23.8
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 8.8 8.5 7.8	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	18.0	21.7
	Base Number (BN)	mg KOH/g	ASTM D2896		8.8	8.5	7.8



OIL ANALYSIS REPORT



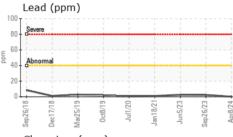


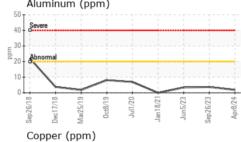


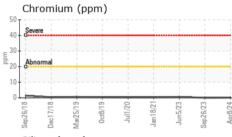
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

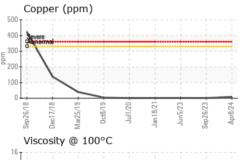
FLUID PROPE	ERITES	method	limit/base		nistory1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.0	11.0	11.3

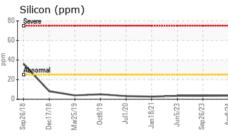
Severe	-		į		į	į	
]							
Abnorma	al		-	-			
	\vdash	-	_	_	_	-	_
Sep26/18	Dec1 //18	Mar25/19 Oct8/19	Jul1/20	Jan 18/21	Jun5/23	Sep26/23	Apr8/24
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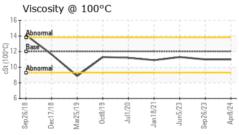


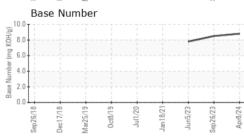
















Certificate 12367

Laboratory Sample No.

: PCA0121430 Lab Number : 06150078 Unique Number : 10980156

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 16 Apr 2024 : 17 Apr 2024

Diagnosed : 17 Apr 2024 - Wes Davis

Test Package : MOB 1 (Additional Tests: TBN)

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)

MILLER TRUCK LEASING #118

2196 BENNETT ROAD PHILADELPHIA, PA

US 19116 Contact: ROSTY VITER rviter@millertransgroup.com

T: (215)552-9832 F: (215)552-9892

Report Id: MILPHINE [WUSCAR] 06150078 (Generated: 04/17/2024 12:44:20) Rev: 1

Contact/Location: ROSTY VITER - MILPHINE