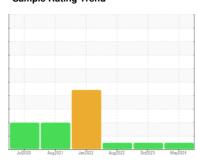


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 705597 Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- G

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

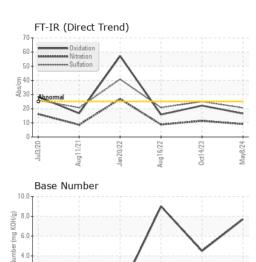
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

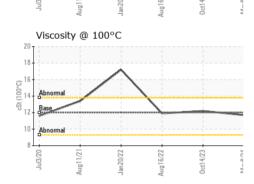
GAL)		Jul2020	Aug2021 Jan2022	Aug ² 022 Oct2023	May2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0125205	PCA0108383	PCA0076758
Sample Date		Client Info		08 May 2024	14 Oct 2023	16 Aug 2022
Machine Age	mls	Client Info		433797	378052	0
Oil Age	mls	Client Info		433797	378052	0
Oil Changed	0	Client Info		Not Changd	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	7 U.L	NEG	NEG	NEG
WEAR METALS method limit/base current history1 history2						
Iron	ppm	ASTM D5185m	>100	23	95	17
Chromium	ppm	ASTM D5185m		<1 <1	2	1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium		ASTM D5185m	>4	14	5	9
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm		>20	11	28	8
	ppm	ASTM D5185m ASTM D5185m		0		
Lead	ppm		>40		0	<1
Copper	ppm	ASTM D5185m		2	8	6
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
Cadmium ADDITIVES	ppm	ASTM D5185m method	limit/base			0 history2
	ppm		limit/base	0	0	
ADDITIVES		method		0 current	0 history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	2	current	0 history1	history2 10
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	2	0 current 12 <1	0 history1 3 0	history2 10 0
ADDITIVES Boron Barium Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	0 current 12 <1 52	0 history1 3 0 63	history2 10 0 52
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	0 current 12 <1 52 <1	0 history1 3 0 63 <1	history2 10 0 52 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950	0 current 12 <1 52 <1 889	0 history1 3 0 63 <1 950	history2 10 0 52 <1 827
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050	0 current 12 <1 52 <1 889 1214	0 history1 3 0 63 <1 950 1207	history2 10 0 52 <1 827 1317
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995	0 current 12 <1 52 <1 889 1214 1075	0 history1 3 0 63 <1 950 1207 1021	history2 10 0 52 <1 827 1317 984
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995 1180	0 current 12 <1 52 <1 889 1214 1075 1263	0 history1 3 0 63 <1 950 1207 1021 1311	history2 10 0 52 <1 827 1317 984 1202
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600	0 current 12 <1 52 <1 889 1214 1075 1263 3445	0 history1 3 0 63 <1 950 1207 1021 1311 2930	history2 10 0 52 <1 827 1317 984 1202 3024
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600	0 current 12 <1 52 <1 889 1214 1075 1263 3445 current	0 history1 3 0 63 <1 950 1207 1021 1311 2930 history1	history2 10 0 52 <1 827 1317 984 1202 3024 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600	0 current 12 <1 52 <1 889 1214 1075 1263 3445 current 6	0 history1 3 0 63 <1 950 1207 1021 1311 2930 history1 12	history2 10 0 52 <1 827 1317 984 1202 3024 history2 4
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base	0 current 12 <1 52 <1 889 1214 1075 1263 3445 current 6 17	0 history1 3 0 63 <1 950 1207 1021 1311 2930 history1 12 3	history2 10 0 52 <1 827 1317 984 1202 3024 history2 4 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25	0 current 12 <1 52 <1 889 1214 1075 1263 3445 current 6 17	0 history1 3 0 63 <1 950 1207 1021 1311 2930 history1 12 3 49	history2 10 0 52 <1 827 1317 984 1202 3024 history2 4 0 2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25	0 current 12 <1 52 <1 889 1214 1075 1263 3445 current 6 17 24 current	0 history1 3 0 63 <1 950 1207 1021 1311 2930 history1 12 3 49 history1	history2 10 0 52 <1 827 1317 984 1202 3024 history2 4 0 2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25 >20	0 current 12 <1 52 <1 889 1214 1075 1263 3445 current 6 17 24 current 0.5	0 history1 3 0 63 <1 950 1207 1021 1311 2930 history1 12 3 49 history1 1.1	history2 10 0 52 <1 827 1317 984 1202 3024 history2 4 0 2 history2 0.4
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm	method ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D5185m ASTM D5185m *ASTM D5185m ASTM D76185m ASTM D76185m ASTM D76185m ASTM D76185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25 >20	0 current 12 <1 52 <1 889 1214 1075 1263 3445 current 6 17 24 current 0.5 9.1	0 history1 3 0 63 <1 950 1207 1021 1311 2930 history1 12 3 49 history1 1.1 11.4	history2 10 0 52 <1 827 1317 984 1202 3024 history2 4 0 2 history2 0.4 8.8
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm	method ASTM D5185m method ASTM D5185m ASTM D5185m *ASTM D5185m ASTM D5185m *ASTM D5185m ASTM D76185m ASTM D76185m ASTM D76185m ASTM D76185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25 >20 limit/base >3 >20 >30	0 current 12 <1 52 <1 889 1214 1075 1263 3445 current 6 17 24 current 0.5 9.1 20.6	0 history1 3 0 63 <1 950 1207 1021 1311 2930 history1 12 3 49 history1 1.1 11.4 25.0	history2 10 0 52 <1 827 1317 984 1202 3024 history2 4 0 2 history2 0.4 8.8 20.8



0.0

OIL ANALYSIS REPORT



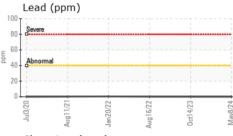


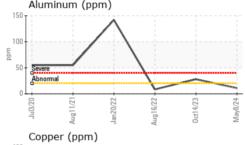
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

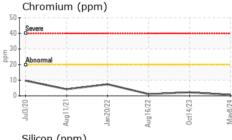
FLUID PROPI	EHIIES	method			riistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	12.00	11.7	12.2	11.9

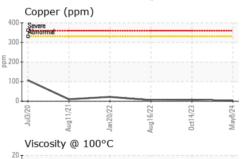
Iron (ppm)				
Severe					
E 150					
Abnorma			<u> </u>		-
50	_/				
0	21+-				
Jul3/20	/ug11/	Jan 20/	Aug16/22	Oct14/2	May8/24
Alumi	num (n	,	A		

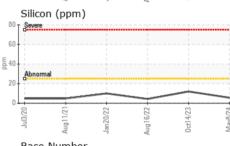
GRAPHS

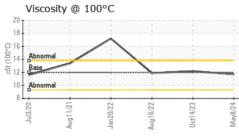


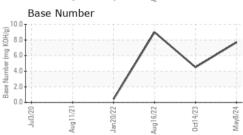
















Laboratory Sample No.

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

: PCA0125205 Lab Number : 06195258 Unique Number : 11057381

Received **Tested** Diagnosed

: 30 May 2024 : 31 May 2024 : 31 May 2024 - Wes Davis

2196 BENNETT ROAD PHILADELPHIA, PA US 19116 Contact: ROSTY VITER

rviter@millertransgroup.com

MILLER TRUCK LEASING #118

Test Package : MOB 1 (Additional Tests: TBN) Certificate 12367 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)

Report Id: MILPHINE [WUSCAR] 06195258 (Generated: 05/31/2024 12:33:56) Rev: 1

Contact/Location: ROSTY VITER - MILPHINE

T: (215)552-9832

F: (215)552-9892