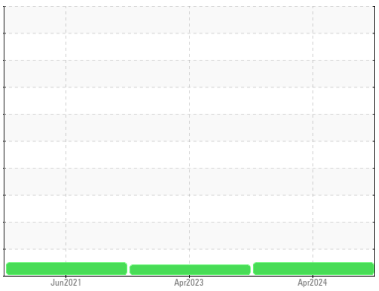
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
SCHTRUCK
Machine Id
6288 [SCHTRUCK]
Component
Front Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

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
Sample Number		Client Info		**SBP0007013**	SBP0004352	SBP55343035
Sample Date		Client Info		**05 Apr 2024**	19 Apr 2023	02 Jun 2021
Machine Age	mls	Client Info		**104423**	99501	99247
Oil Age	mls	Client Info		**4922**	225	103
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	ATTENTION	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	0.0

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	**10**	3	11
Chromium	ppm	ASTM D5185m	>20	**1**	0	1
Nickel	ppm	ASTM D5185m	>4	**<1**	0	0
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m	>3	**<1**	0	0
Aluminum	ppm	ASTM D5185m	>20	**2**	1	5
Lead	ppm	ASTM D5185m	>40	**1**	0	0
Copper	ppm	ASTM D5185m	>330	**<1**	0	9
Tin	ppm	ASTM D5185m	>15	**1**	0	0
Vanadium	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	**19**	81	13
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	60	**63**	47	1
Manganese	ppm	ASTM D5185m	0	**<1**	<1	0
Magnesium	ppm	ASTM D5185m	1010	**959**	523	591
Calcium	ppm	ASTM D5185m	1070	**1323**	1602	987
Phosphorus	ppm	ASTM D5185m	1150	**1084**	751	630
Zinc	ppm	ASTM D5185m	1270	**1279**	902	618
Sulfur	ppm	ASTM D5185m	2060	**3523**	2759	---

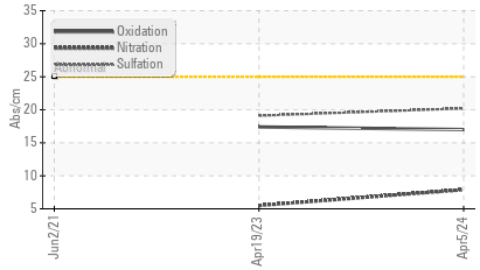
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**7**	12	3
Sodium	ppm	ASTM D5185m		**2**	2	3
Potassium	ppm	ASTM D5185m	>20	**1**	<1	9
Chlorine	ppm	ASTM D5185m		**---**	---	0
Fuel	%	ASTM D3524	>5	**<1.0**	0.4	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.3**	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	**7.9**	5.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**20.2**	19.1	---

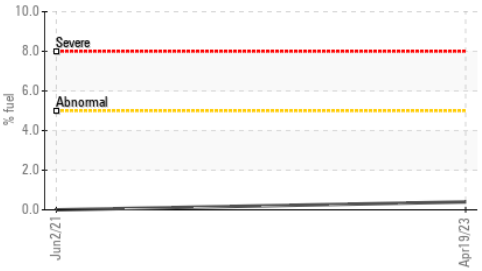
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**17.0**	17.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	**8.8**	8.6	---

OIL ANALYSIS REPORT

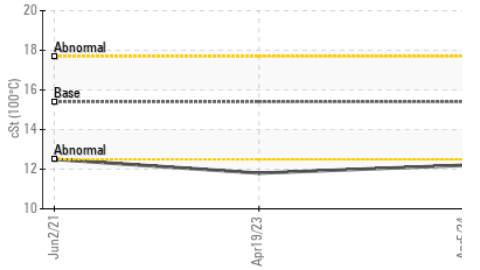
FT-IR (Direct Trend)



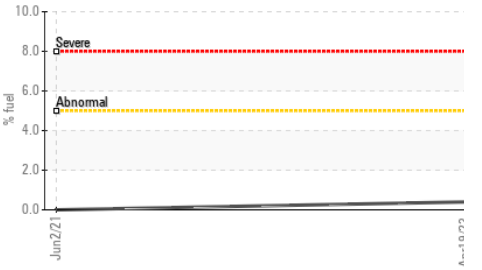
Fuel Dilution



Viscosity @ 100°C



Fuel Dilution

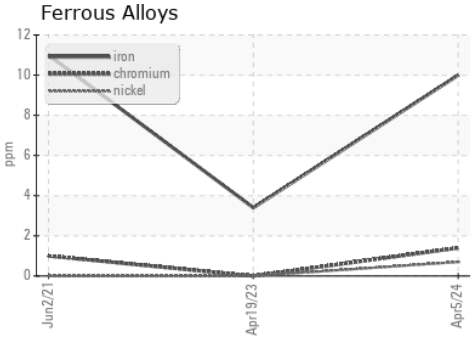


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt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

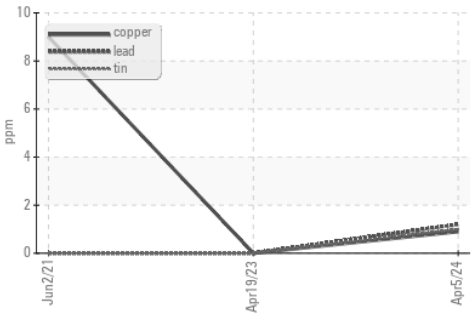
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	**12.2**	11.8	12.5

GRAPHS

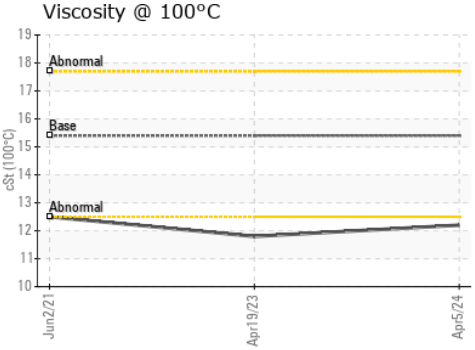
Ferrous Alloys



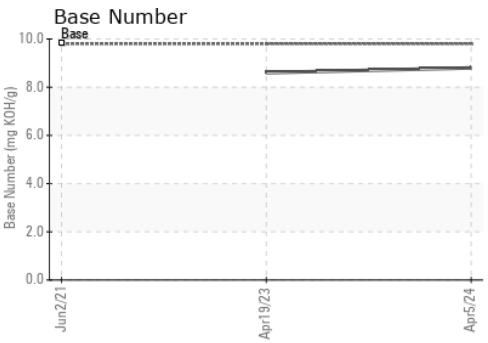
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0007013
Lab Number : 06143629
Unique Number : 10968437
Test Package : FLEET (Additional Tests: FuelDilution)

Received : 09 Apr 2024
Tested : 10 Apr 2024
Diagnosed : 10 Apr 2024 - Jonathan Hester

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)

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Report Id: SCHPLA [WUSCAR] 06143629 (Generated: 04/10/2024 15:27:04) Rev: 1

Submitted By: CASEY WILKIE