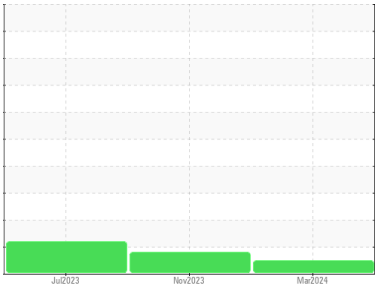
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
SCHTRUCK
Machine Id
6427 [SCHTRUCK]
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (10 GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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		**SBP0007019**	SBP0006003	SBP0004726
Sample Date		Client Info		**29 Mar 2024**	21 Nov 2023	18 Jul 2023
Machine Age	hrs	Client Info		**123482**	80526	36507
Oil Age	hrs	Client Info		**42956**	44019	36507
Oil Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	**<1.0**	<1.0	0.3
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**37**	53	75
Chromium	ppm	ASTM D5185m	>20	**2**	4	4
Nickel	ppm	ASTM D5185m	>2	**0**	<1	2
Titanium	ppm	ASTM D5185m	>2	**0**	0	<1
Silver	ppm	ASTM D5185m	>2	**0**	<1	0
Aluminum	ppm	ASTM D5185m	>30	**19**	33	59
Lead	ppm	ASTM D5185m	>30	**0**	0	2
Copper	ppm	ASTM D5185m	>30	**26**	▲ 44	▲ 291
Tin	ppm	ASTM D5185m	>15	**<1**	3	5
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**2**	4	28
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	60	**64**	61	49
Manganese	ppm	ASTM D5185m	0	**<1**	2	5
Magnesium	ppm	ASTM D5185m	1010	**1066**	930	635
Calcium	ppm	ASTM D5185m	1070	**1269**	1292	1836
Phosphorus	ppm	ASTM D5185m	1150	**1046**	1025	791
Zinc	ppm	ASTM D5185m	1270	**1315**	1299	941
Sulfur	ppm	ASTM D5185m	2060	**2744**	2205	2177

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	**5**	6	9
Sodium	ppm	ASTM D5185m		**3**	2	7
Potassium	ppm	ASTM D5185m	>20	**42**	74	150

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.7**	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	**10.7**	12.2	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	**22.6**	24.0	21.0

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**22.5**	25.4	18.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	**5.7**	4.3	6.9

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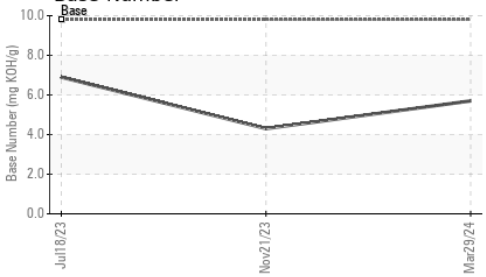
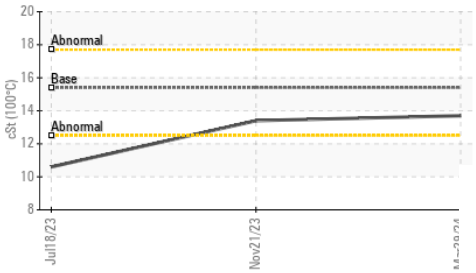


Viscosity @ 100°C

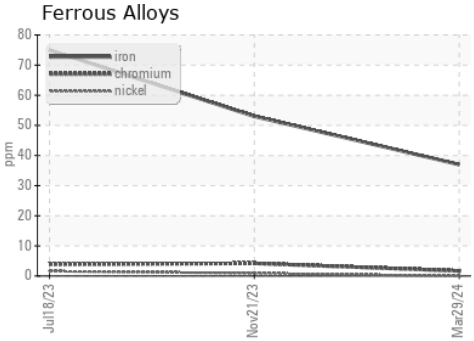


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

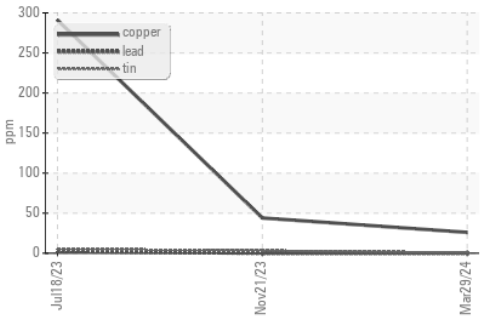
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	**13.7**	13.4	10.6

GRAPHS

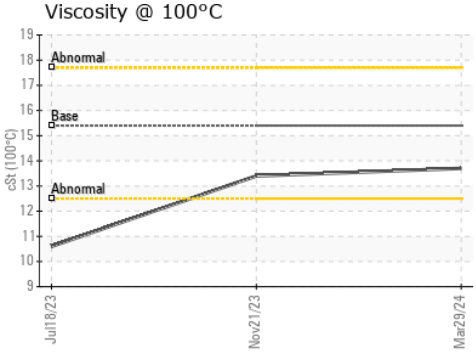
Ferrous Alloys



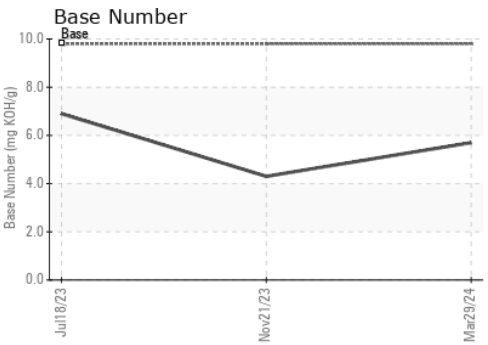
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0007019
Lab Number : 06135547
Unique Number : 10955012
Test Package : FLEET

Received : 01 Apr 2024
Tested : 02 Apr 2024
Diagnosed : 02 Apr 2024 - Wes Davis

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)

SCHMIDT TRANSPORTATION - 605449
108 E Bay Road
Plattsmouth, NE
US 68048
Contact: NICK DOTY
doty@liquidtrucking.com
T: (402)949-9398
F:

Report Id: SCHPLA [WUSCAR] 06135547 (Generated: 04/02/2024 15:35:27) Rev: 1

Submitted By: CASEY WILKIE