OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
95073
Component
Liquid Petroleum Gas
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

Moderate concentration of visible metal present. All component wear rates are normal.

CONTAMINATION

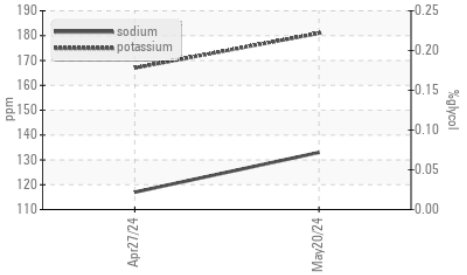
Sodium and/or potassium levels are high. There is a light concentration of water present in the oil.

FLUID CONDITION

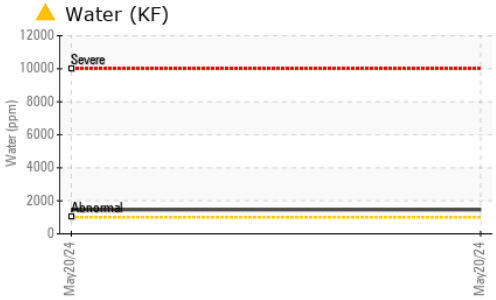
The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		SBP0001940	SBP0001939	---
Sample Date		Client Info		20 May 2024	27 Apr 2024	---
Machine Age	mls	Client Info		101966	109986	---
Oil Age	mls	Client Info		10000	10000	---
Filter Age	mls	Client Info		10000	10000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185m	>120	104	▲ 120	---
Chromium	ppm	ASTM D5185m	>10	4	3	---
Nickel	ppm	ASTM D5185m	>5	2	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>5	1	<1	---
Aluminum	ppm	ASTM D5185m	>20	21	19	---
Lead	ppm	ASTM D5185m	>40	3	3	---
Copper	ppm	ASTM D5185m	>300	5	4	---
Tin	ppm	ASTM D5185m	>10	1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	▲ MODER	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	13	12	---
Potassium	ppm	ASTM D5185m	>20	▲ 181	▲ 167	---
Fuel	%	ASTM D3524	>4.0	0.2	---	---
Water	%	ASTM D6304	>0.1	▲ 0.146	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 1460	---	---
Soot %	%	*ASTM D7844		0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	7.7	7.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	18.3	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	---
Sodium	ppm	ASTM D5185m		▲ 133	117	---
Boron	ppm	ASTM D5185m		37	35	---
Barium	ppm	ASTM D5185m		1	0	---
Molybdenum	ppm	ASTM D5185m		111	115	---
Manganese	ppm	ASTM D5185m		1	1	---
Magnesium	ppm	ASTM D5185m		701	798	---
Calcium	ppm	ASTM D5185m		1247	1454	---
Phosphorus	ppm	ASTM D5185m		766	882	---
Zinc	ppm	ASTM D5185m		946	1133	---
Sulfur	ppm	ASTM D5185m		2726	3468	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.3	9.3	---
Base Number (BN)	mg KOH/g	ASTM D2896		5.6	5.6	---
Visc @ 100°C	cSt	ASTM D445		9.8	9.9	---

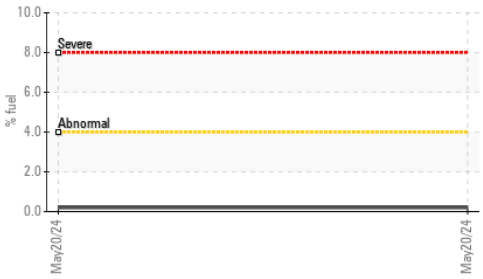
Glycol Contamination



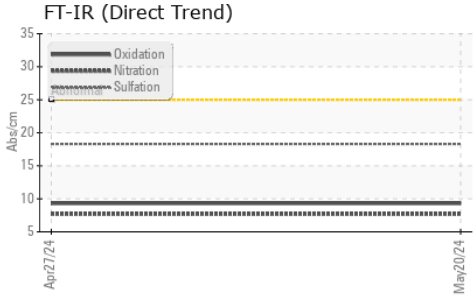
Water (KF)



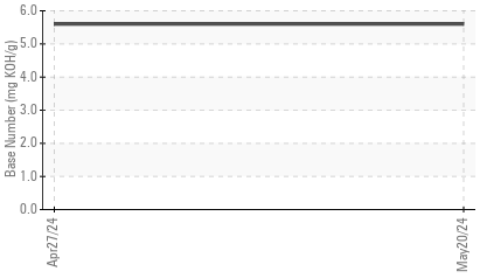
Fuel Dilution



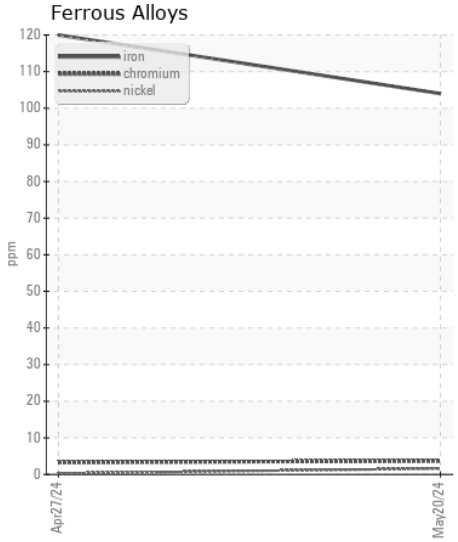
FT-IR (Direct Trend)



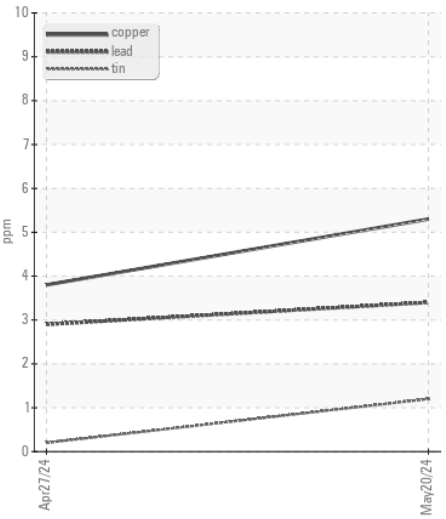
Base Number



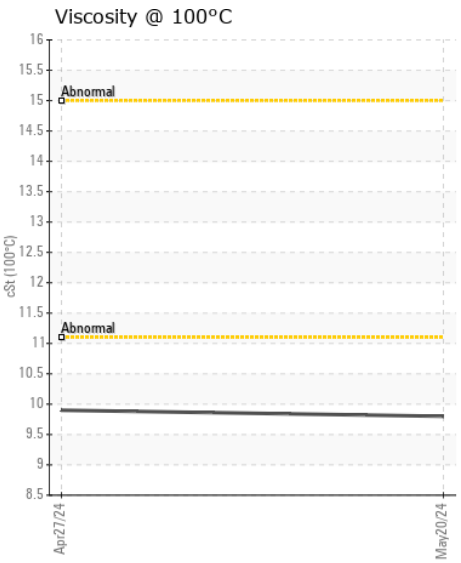
Ferrous Alloys



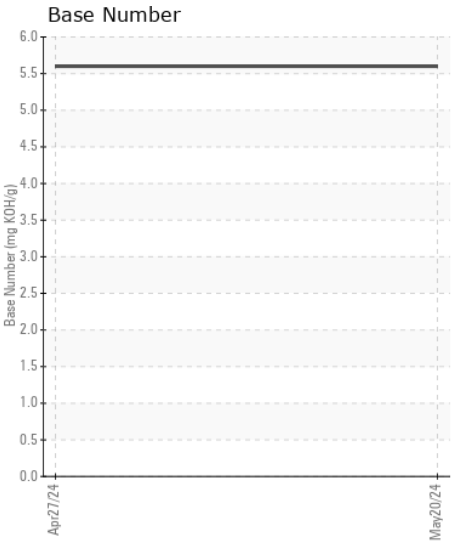
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0001940
Lab Number : 06191944
Unique Number : 11048696
Test Package : FLEET (Additional Tests: FuelDilution, KF, PercentFuel)

Received : 28 May 2024
Tested : 30 May 2024
Diagnosed : 30 May 2024 - Jonathan Hester

Sapp Bros. Fleet - Lincoln Location
,
US
Contact: Service Manager
T:
F:

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)