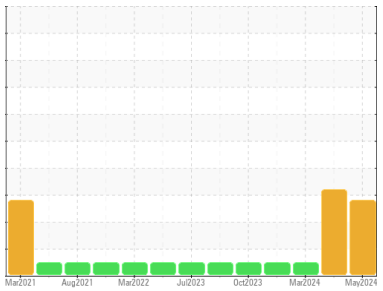
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
ALMEDA PIPELINE PUMP 1 820PM18101
Component
Natural Gas Engine
Fluid
MOBIL PEGASUS 805 (--- GAL)

DIAGNOSIS

Recommendation
The oil is near the end of it`s useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a light concentration of water present in the oil.

Fluid Condition
The BN level is low. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RP0036515**	RP0036854	RP0036792
Sample Date		Client Info		**13 May 2024**	05 Apr 2024	04 Mar 2024
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Filtered**	Filtered	Filtered
Sample Status				**ABNORMAL**	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**6**	▲ 34	9
Chromium	ppm	ASTM D5185m	>4	**0**	0	0
Nickel	ppm	ASTM D5185m	>2	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>3	**0**	0	0
Aluminum	ppm	ASTM D5185m	>9	**3**	2	3
Lead	ppm	ASTM D5185m	>30	**<1**	6	1
Copper	ppm	ASTM D5185m	>35	**<1**	8	<1
Tin	ppm	ASTM D5185m	>4	**0**	<1	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	80	**0**	11	7
Barium	ppm	ASTM D5185m		**0**	2	0
Molybdenum	ppm	ASTM D5185m		**13**	10	10
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**53**	49	54
Calcium	ppm	ASTM D5185m	1020	**1483**	1150	1191
Phosphorus	ppm	ASTM D5185m	220	**375**	332	325
Zinc	ppm	ASTM D5185m	230	**432**	385	378

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	**2**	3	2
Sodium	ppm	ASTM D5185m		**1**	6	0
Potassium	ppm	ASTM D5185m	>20	**5**	2	6
Water	%	ASTM D6304	>0.1	▲ **0.142**	▲ 0.446	---
ppm Water	ppm	ASTM D6304	>1000	▲ **1420**	▲ 4460	---
Glycol	%	*ASTM D2982		**0.0**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.1**	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	**8.3**	5.6	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	**18.3**	14.2	16.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**14.9**	9.9	13.5
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	**1.04**	1.21	0.94
Base Number (BN)	mg KOH/g	ASTM D2896	6.4	▲ **2.91**	5.30	4.52

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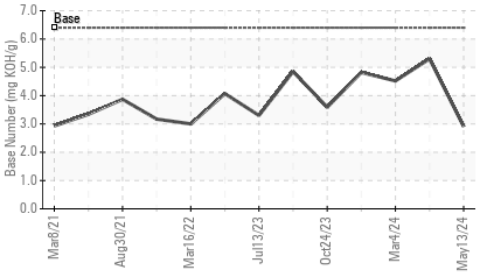
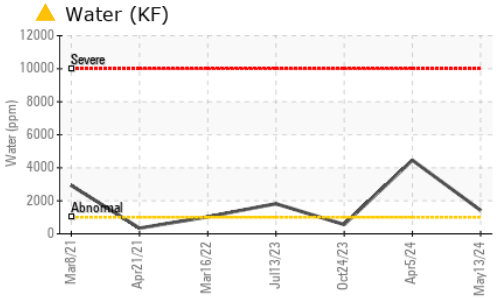
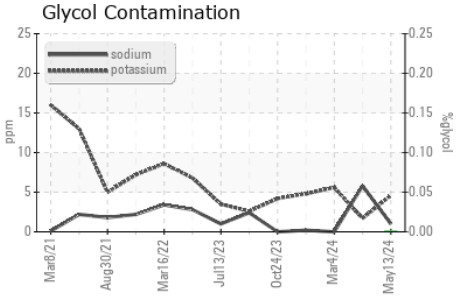
Base Number



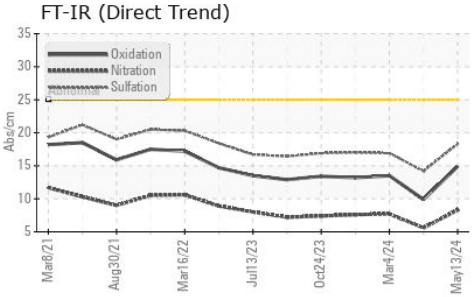
Water (KF)



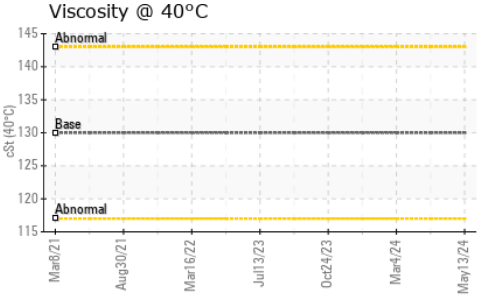
Glycol Contamination



FT-IR (Direct Trend)



Viscosity @ 40°C

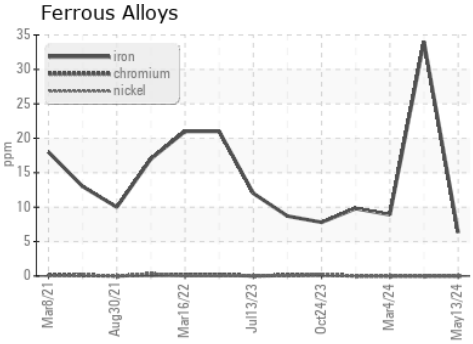


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	HAZY	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**0.2%**	0.2%	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

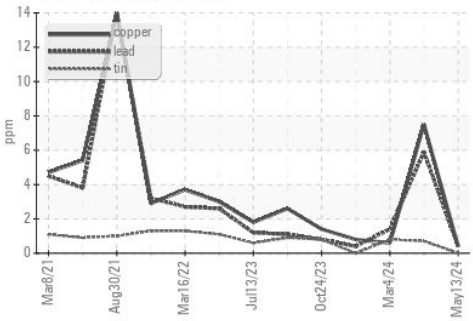
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.5	**13.3**	---	13.2

GRAPHS

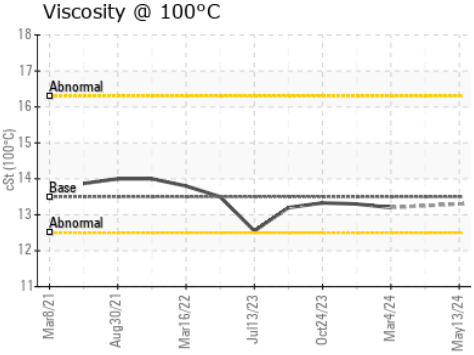
Ferrous Alloys



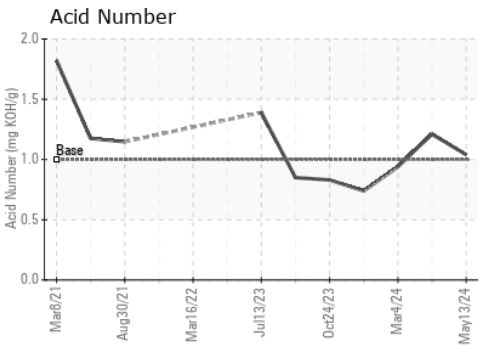
Non-ferrous Metals



Viscosity @ 100°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0036515
Lab Number : 06201651
Unique Number : 11063774
Test Package : IND 2 (Additional Tests: FT-IR, Glycol, KV100, TBN)

Received : 06 Jun 2024
Tested : 18 Jun 2024
Diagnosed : 18 Jun 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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