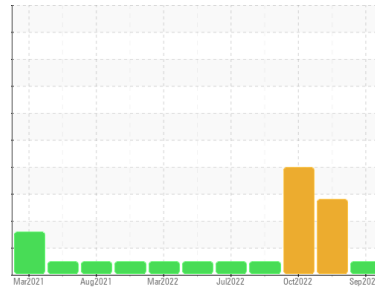




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
ALMEDA PIPELINE PUMP 3 820PM18301

Component
Natural Gas Engine
Fluid
MOBIL PEGASUS 805 (--- 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	RP0026941	RP0026928	RP0017993
Sample Date	Client Info	19 Sep 2023	07 Feb 2023	03 Oct 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	Filtered	N/A	Not Changd
Sample Status		NORMAL	ABNORMAL	SEVERE

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	---	0.0	0.0

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	5	4	7
Chromium	ppm	ASTM D5185m >4	0	0	<1
Nickel	ppm	ASTM D5185m >2	0	0	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >3	0	<1	<1
Aluminum	ppm	ASTM D5185m >9	4	2	2
Lead	ppm	ASTM D5185m >30	<1	<1	<1
Copper	ppm	ASTM D5185m >35	4	1	2
Tin	ppm	ASTM D5185m >4	<1	<1	2
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	<1	0	<1

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 80	6	4	11
Barium	ppm	ASTM D5185m	0	0	2
Molybdenum	ppm	ASTM D5185m	11	5	12
Manganese	ppm	ASTM D5185m	1	<1	<1
Magnesium	ppm	ASTM D5185m	42	23	68
Calcium	ppm	ASTM D5185m 1020	1182	1093	1150
Phosphorus	ppm	ASTM D5185m 220	333	316	351
Zinc	ppm	ASTM D5185m 230	370	351	405

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >+100	3	3	2
Sodium	ppm	ASTM D5185m	2	1	0
Potassium	ppm	ASTM D5185m >20	9	22	15
Water	%	ASTM D6304 >0.1	---	▲ 0.877	■ 2.42
ppm Water	ppm	ASTM D6304 >1000	---	▲ 8770	■ 24200

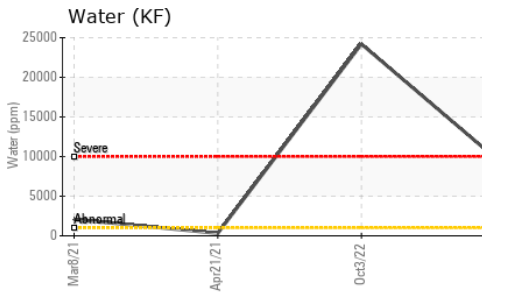
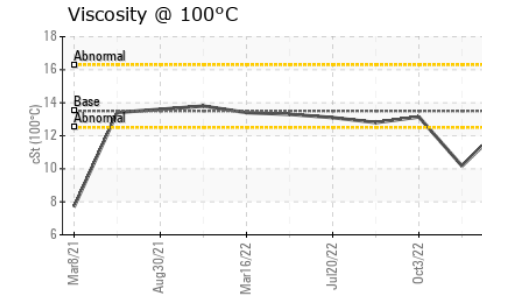
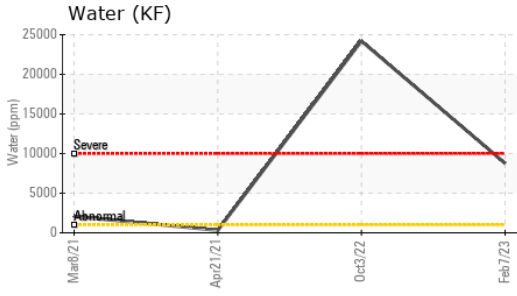
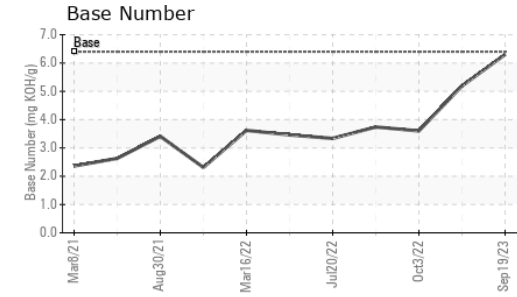
INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	4.2	7.2	14.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	15.3	13.2	9.4

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	10.1	11.0	14.4
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.93	0.62	1.09
Base Number (BN)	mg KOH/g	ASTM D2896 6.4	6.30	5.19	3.60

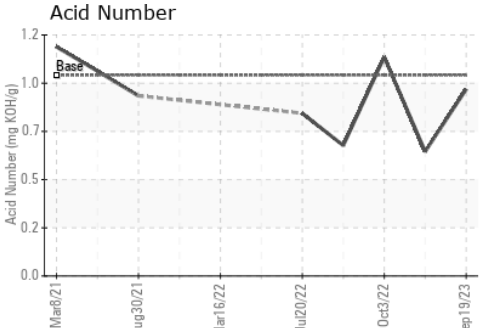
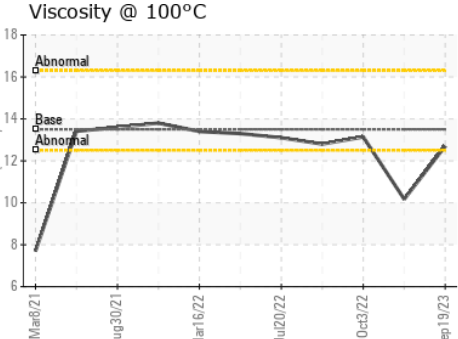
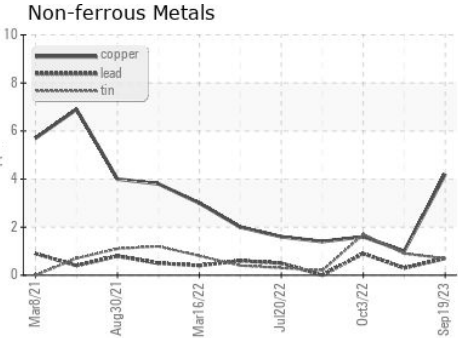
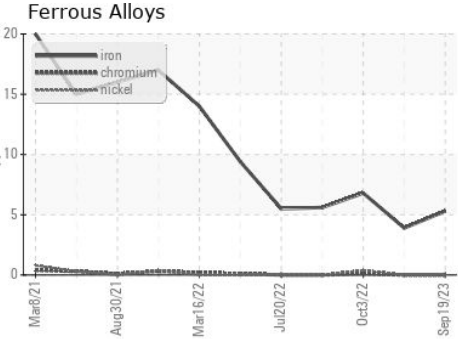
OIL ANALYSIS REPORT



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	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ MILKY	▲ MILKY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.5	12.7	▲ 10.17

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0026941 **Received** : 25 Sep 2023
Lab Number : 05959944 **Diagnosed** : 29 Sep 2023
Unique Number : 10661157 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: FT-IR, KV100, TBN)

ENTERPRISE PRODUCTS - MORGAN'S POINT
 1200 N BROADWAY
 LA PORTE, TX
 US 77571
 Contact: LONNIE RAMIREZ
 LRamirez@eprod.com
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Certificate L2367
 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)