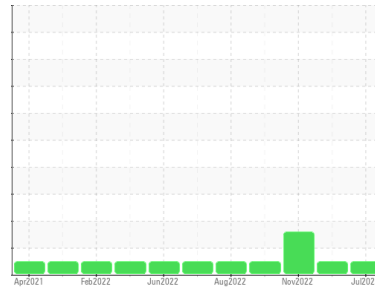




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
ALMEDA PIPELINE PUMP 4 820PM18401

Component
Natural Gas Engine
Fluid
MOBIL PEGASUS 805 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

The water content is negligible. 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		RP0026913	RP0026929	RP0026918
Sample Date	Client Info		13 Jul 2023	07 Feb 2023	01 Nov 2022
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	14	14	7
Chromium	ppm	ASTM D5185m >4	<1	<1	0
Nickel	ppm	ASTM D5185m >2	<1	0	0
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >9	2	3	2
Lead	ppm	ASTM D5185m >30	2	2	0
Copper	ppm	ASTM D5185m >35	3	3	2
Tin	ppm	ASTM D5185m >4	<1	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	5	4	8
Barium	ppm	ASTM D5185m	0	0	<1
Molybdenum	ppm	ASTM D5185m	11	10	12
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	78	73	60
Calcium	ppm	ASTM D5185m 1020	1496	1364	1095
Phosphorus	ppm	ASTM D5185m 220	415	385	337
Zinc	ppm	ASTM D5185m 230	465	429	402

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	3	3	3
Sodium	ppm	ASTM D5185m	1	1	1
Potassium	ppm	ASTM D5185m >20	9	9	19
Water	%	ASTM D6304 >0.1	0.024	---	▲ 0.485
ppm Water	ppm	ASTM D6304 >1000	245.0	---	▲ 4850

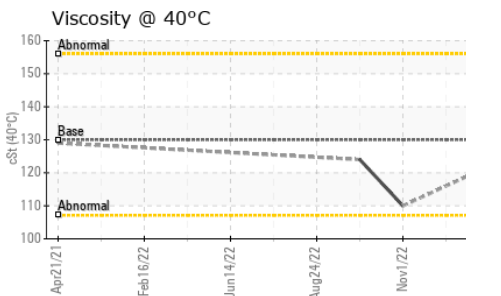
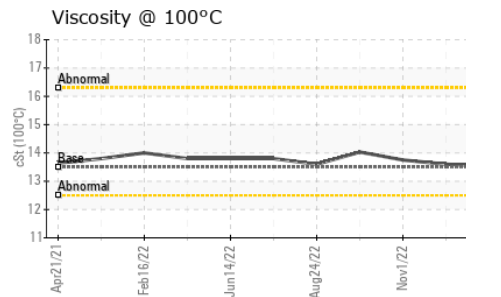
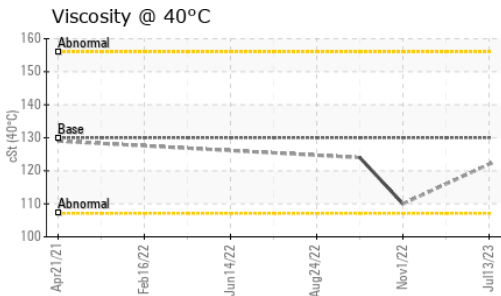
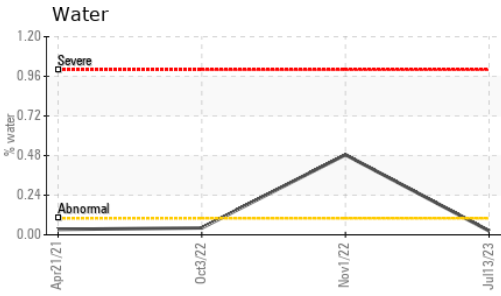
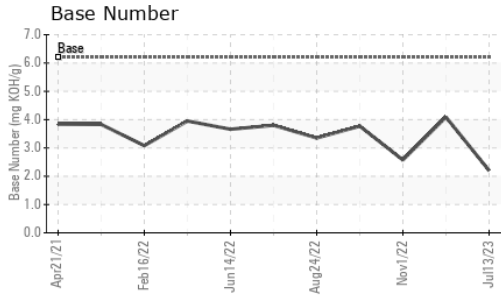
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	9.3	9.6	10
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.0	19.0	14.3

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.8	15.5	13.2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	1.40	---	1.27
Base Number (BN)	mg KOH/g	ASTM D2896 6.2	2.2	4.09	2.574

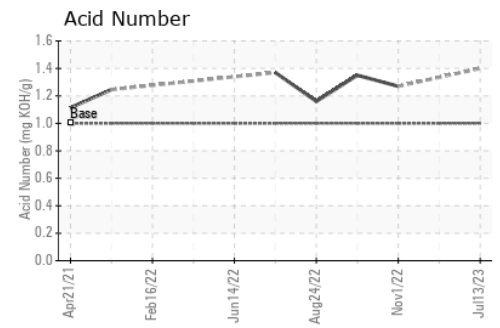
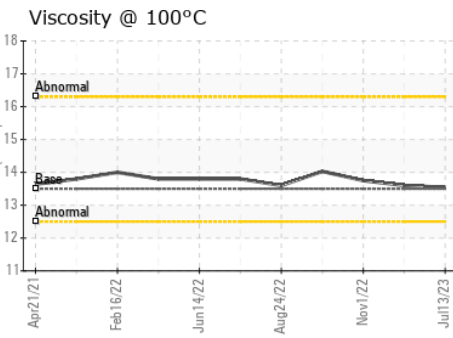
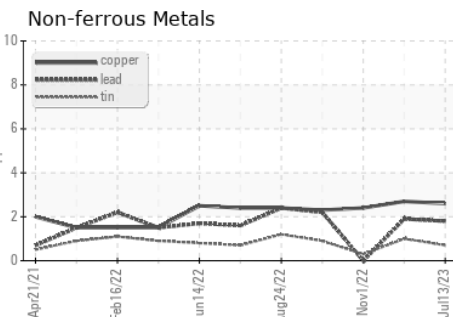
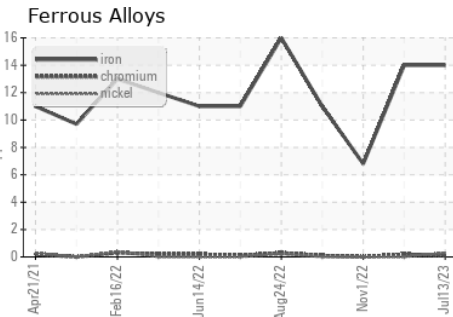
OIL ANALYSIS REPORT



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	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	130.0	122	---	110
Visc @ 100°C	cSt	ASTM D445	13.5	13.54	13.6	13.75
Viscosity Index (VI)	Scale	ASTM D2270	99	107	---	124

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0026913 **Received** : 20 Jul 2023
Lab Number : 05903359 **Diagnosed** : 26 Jul 2023
Unique Number : 10564715 **Diagnostician** : Wes Davis
Test Package : IND 2 (Additional Tests: FT-IR, KV100, TBN, VI)

ENTERPRISE PRODUCTS - MORGAN'S POINT
 1200 N BROADWAY
 LA PORTE, TX
 US 77571
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 LRamirez@eprod.com
 T: (713)575-4112
 F:

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)