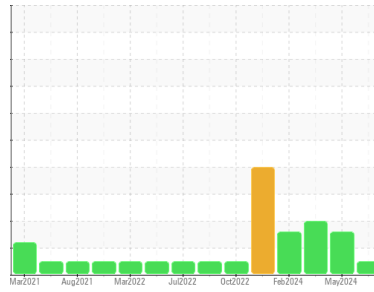




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

[INJ #1]

Machine Id

ALMEDA INJECTION PUMP 2 820PM18022

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

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	RP0036513	RP0036512	RP0033545
Sample Date	Client Info	13 May 2024	13 May 2024	04 Mar 2024
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	Filtered	Filtered	Filtered
Sample Status		NORMAL	MARGINAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	44	40	32
Chromium	ppm	ASTM D5185m >4	2	<1	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	2
Lead	ppm	ASTM D5185m >30	2	9	7
Copper	ppm	ASTM D5185m >35	3	8	7
Tin	ppm	ASTM D5185m >4	0	0	1
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 80	0	0	11
Barium	ppm	ASTM D5185m	0	0	1
Molybdenum	ppm	ASTM D5185m	11	12	10
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	43	47	49
Calcium	ppm	ASTM D5185m 1020	1365	1312	1097
Phosphorus	ppm	ASTM D5185m 220	344	364	309
Zinc	ppm	ASTM D5185m 230	402	430	367

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >+100	5	3	3
Sodium	ppm	ASTM D5185m	2	6	5
Potassium	ppm	ASTM D5185m >20	0	1	<1
Water	%	ASTM D6304 >0.1	NEG	▲ 0.107	▲ 0.479
ppm Water	ppm	ASTM D6304 >1000	---	▲ 1070	▲ 4790

INFRA-RED

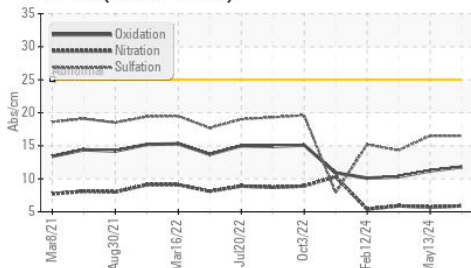
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	0	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	5.9	5.7	5.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	16.5	16.5	14.3

FLUID DEGRADATION

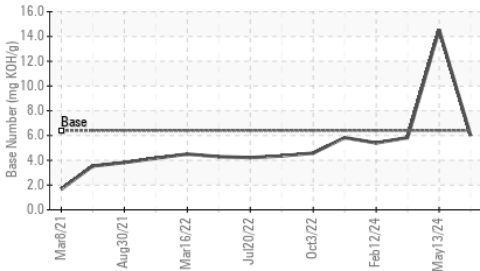
method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	11.8	11.2	10.3
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.73	0.92	1.33
Base Number (BN)	mg KOH/g	ASTM D2896 6.4	5.99	14.55	5.83

OIL ANALYSIS REPORT

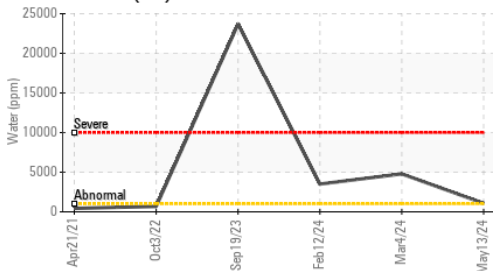
FT-IR (Direct Trend)



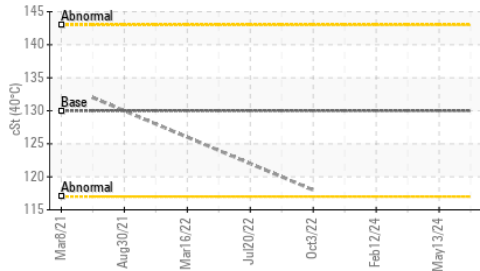
Base Number



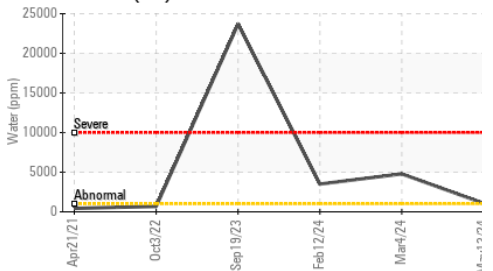
Water (KF)



Viscosity @ 40°C



Water (KF)

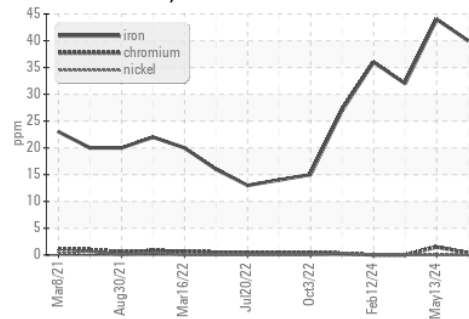


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

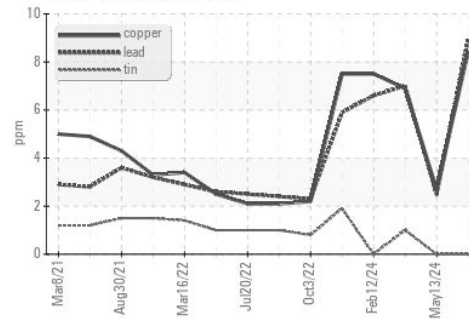
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.5	12.8	12.6 ▲ 11.3

GRAPHS

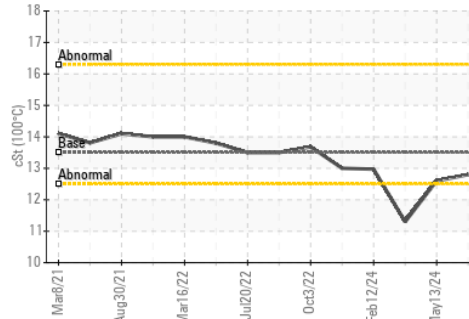
Ferrous Alloys



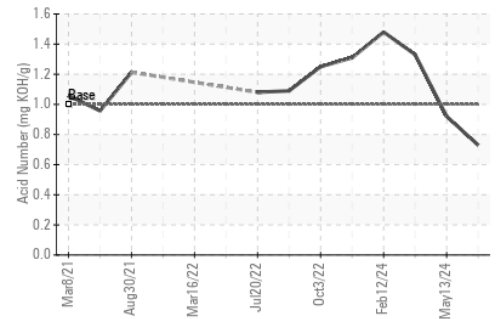
Non-ferrous Metals



Viscosity @ 100°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0036513
Lab Number : 06201653
Unique Number : 11063776
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@eproduct.com
 T: (713)575-4112

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)