



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**HER SON [CONHER]**  
 Machine Id  
**PRESON - Baseline Mobil SAE 40**  
 Component  
**New (Unused) Oil**  
 Fluid  
**Mobil Pegasus 610 engine gas oil SAE 40 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

This is a baseline read-out on the submitted sample.

### ▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>KL0012359</b>	---	---
Sample Date	Client Info	<b>17 May 2023</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---
Oil Age	hrs	Client Info	<b>0</b>	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	<b>2</b>	---
Chromium	ppm	ASTM D5185m	<b>0</b>	---
Nickel	ppm	ASTM D5185m	<b>0</b>	---
Titanium	ppm	ASTM D5185m	<b>0</b>	---
Silver	ppm	ASTM D5185m	<b>0</b>	---
Aluminum	ppm	ASTM D5185m	<b>1</b>	---
Lead	ppm	ASTM D5185m	<b>0</b>	---
Copper	ppm	ASTM D5185m	<b>0</b>	---
Tin	ppm	ASTM D5185m	<b>0</b>	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>123</b>	---
Barium	ppm	ASTM D5185m	<b>0</b>	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185m	<b>9</b>	---
Calcium	ppm	ASTM D5185m	<b>3409</b>	---
Phosphorus	ppm	ASTM D5185m	<b>20</b>	---
Zinc	ppm	ASTM D5185m	<b>&lt;1</b>	---
Sulfur	ppm	ASTM D5185m	<b>7695</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<b>10</b>	---
Sodium	ppm	ASTM D5185m	<b>0</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>

## INFRA-RED

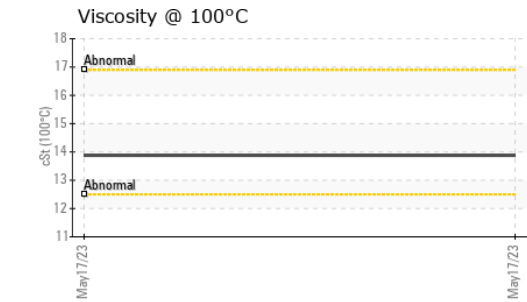
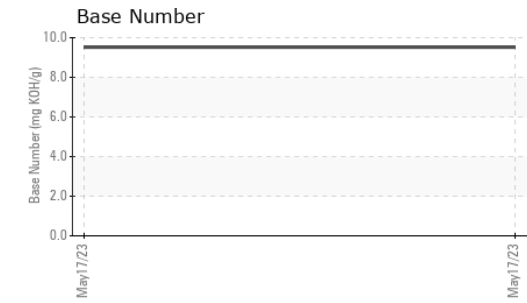
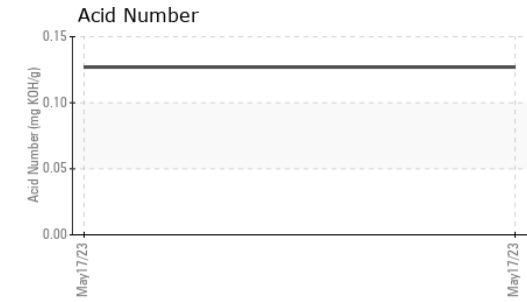
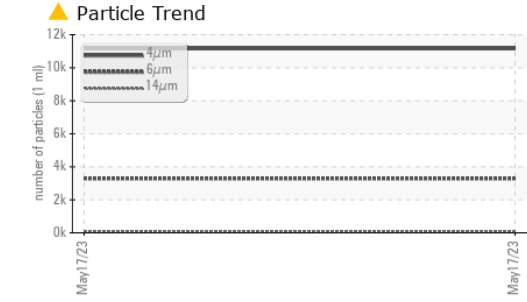
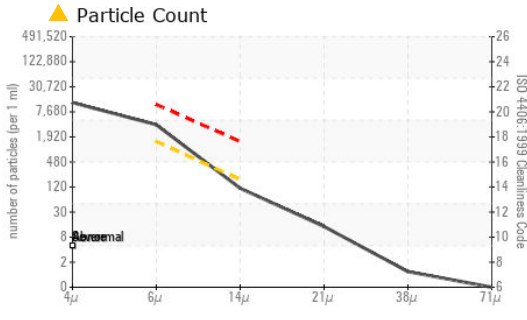
method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	---
Nitration	Abs/cm	*ASTM D7624	<b>4.3</b>	---
Sulfation	Abs/.1mm	*ASTM D7415	<b>15.3</b>	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	<b>11156</b>	---
Particles >6µm		ASTM D7647	>1300	<b>▲ 3290</b>
Particles >14µm		ASTM D7647	>160	<b>99</b>
Particles >21µm		ASTM D7647	>40	<b>12</b>
Particles >38µm		ASTM D7647	>10	<b>1</b>
Particles >71µm		ASTM D7647	>3	<b>0</b>
Oil Cleanliness		ISO 4406 (c)	>17/14	<b>▲ 19/14</b>




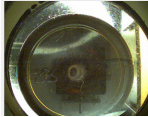
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FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	*ASTM D7414		<b>6.1</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.127</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.52</b>	---	---

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		<b>133.2</b>	---	---
Visc @ 100°C	cSt	ASTM D445		<b>13.88</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270		<b>100</b>	---	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KL0012359 **Received** : 26 May 2023  
**Lab Number** : **05858770** **Diagnosed** : 31 May 2023  
**Unique Number** : 10493235 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN,

**CONOR**  
 JUAREZ 348  
 HERMOSILLO,  
 MX 83140  
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 F: x:

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)