# GREASE ANALYSIS

**HIGH PERFORMANCE LUBRICANTS**

Sample Rating Trend

**NORMAL**

✓

Area
**04**
Machine Id
## [04] BASELINE - LUBRIPLATE 1242 GREASE
Component
**Grease**
Fluid
**{not provided} (--- GAL)**

May 2024
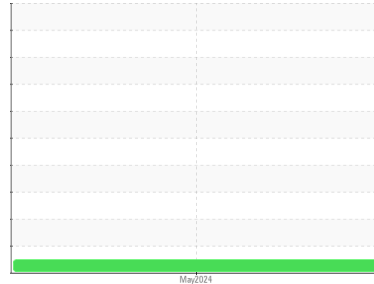
## DIAGNOSIS

**Recommendation**

This is a baseline read-out on the submitted sample. ( Customer Sample Comment: 1242 Grease / A1481 exp:11/2032 )

| SAMPLE INFORMATION | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Sample Number | Client Info | | **HPL0004903** | --- | --- |
| Sample Date | Client Info | | **28 May 2024** | --- | --- |
| Machine Age | hrs | Client Info | **0** | --- | --- |
| Grease Age | hrs | Client Info | **0** | --- | --- |
| Grease Serviced | | Client Info | **N/A** | --- | --- |
| Sample Status | | | **NORMAL** | --- | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| PQ | | ASTM D8184 | >200 | **20** | --- | --- |
| Iron | ppm | ASTM D5185m | >250 | **146** | --- | --- |
| Chromium | ppm | ASTM D5185m | >10 | **5** | --- | --- |
| Nickel | ppm | ASTM D5185m | >5 | **1** | --- | --- |
| Cadmium | ppm | ASTM D5185m | | **0** | --- | --- |
| Titanium | ppm | ASTM D5185m | | **1** | --- | --- |
| Vanadium | ppm | ASTM D5185m | | **<1** | --- | --- |
| Lead | ppm | ASTM D5185m | >25 | **<1** | --- | --- |
| Copper | ppm | ASTM D5185m | >75 | **2** | --- | --- |
| Tin | ppm | ASTM D5185m | >5 | **0** | --- | --- |
| Silver | ppm | ASTM D5185m | >5 | **<1** | --- | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **195** | --- | --- |
| Magnesium | ppm | ASTM D5185m | | **60** | --- | --- |
| Manganese | ppm | ASTM D5185m | | **2** | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | **35** | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | **1786** | --- | --- |
| Zinc | ppm | ASTM D5185m | | **8449** | --- | --- |

| THICKENER/SOAP | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Aluminum | ppm | ASTM D5185m | | **5** | --- | --- |
| Barium | ppm | ASTM D5185m | | **<1** | --- | --- |
| Calcium | ppm | ASTM D5185m | | **5899** | --- | --- |
| Sodium | ppm | ASTM D5185m | | **11** | --- | --- |
| Lithium | ppm | ASTM D5185m | | **594** | --- | --- |
| Sulfur | ppm | ASTM D5185m | | **5625** | --- | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >150 | **401** | --- | --- |
| Potassium | ppm | ASTM D5185m | | **8** | --- | --- |
| Water | % | ASTM D6304 | >0.1 | **NEG** | --- | --- |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | | | no image | no image |
| Bottom | | | | no image | no image |
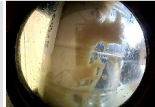
# GREASE ANALYSIS
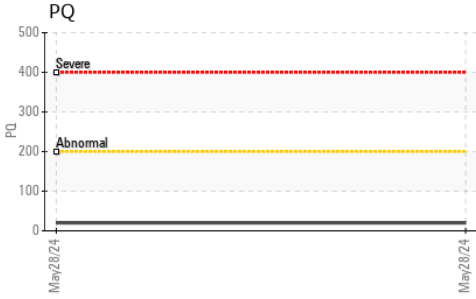
## GRAPHS
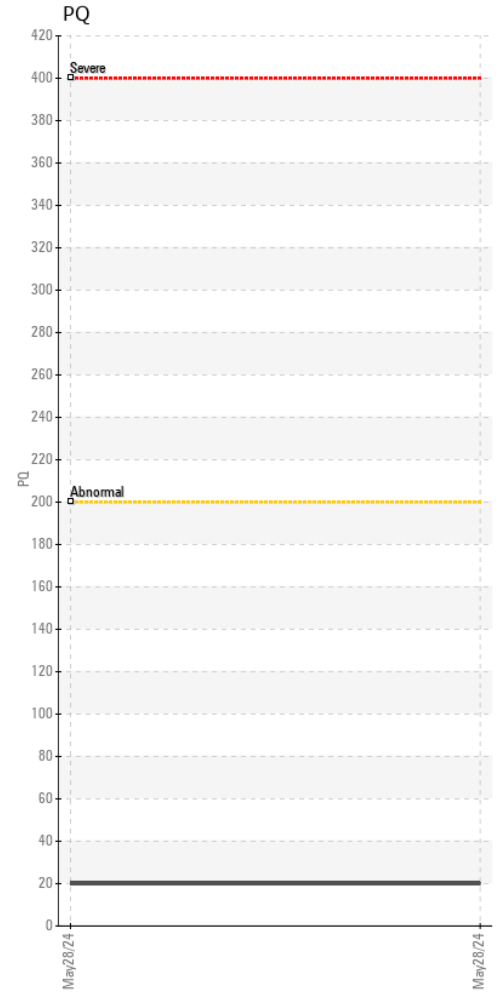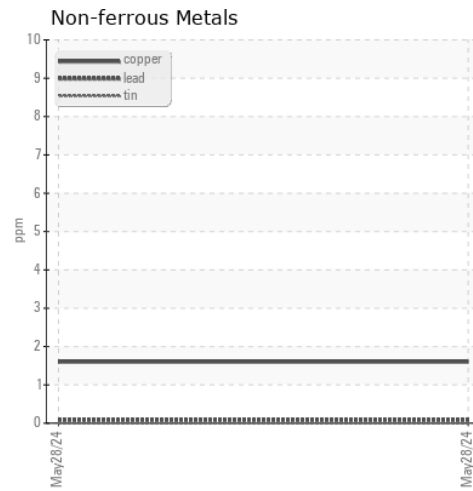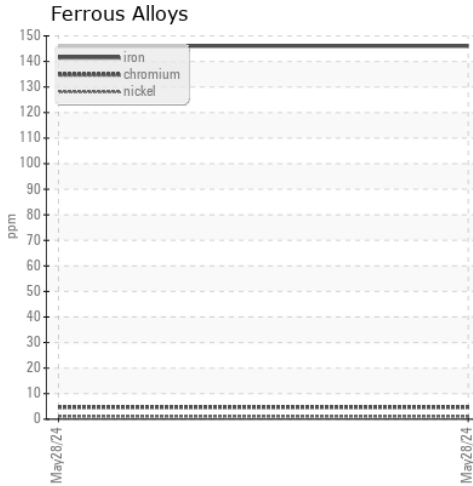
### PQ



### Ferrous Alloys

Legend: iron, chromium, nickel



### Non-ferrous Metals

Legend: copper, lead, tin



### PQ

Severe — 400
Abnormal — 200



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