

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id **TOTE 164** Component **New (Unused) Oil** Fluid **{not provided} (--- GAL)**

DIAGNOSIS

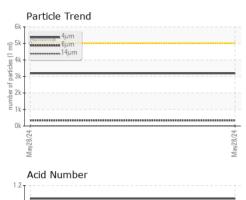
Recommendation

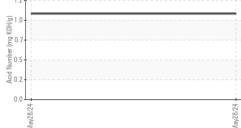
This is a baseline read-out on the submitted sample.

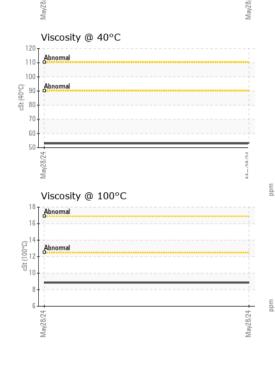
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|------------------|----------|--------------|------------|-------------|----------|----------|
| Sample Number | | Client Info | | TLC0001626 | | |
| Sample Date | | Client Info | | 28 May 2024 | | |
| Machine Age | hrs | Client Info | | 0 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | NORMAL | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >5 | <1 | | |
| Chromium | ppm | ASTM D5185m | >5 | 0 | | |
| Nickel | ppm | ASTM D5185m | >5 | 0 | | |
| Titanium | ppm | ASTM D5185m | | 0 | | |
| Silver | ppm | ASTM D5185m | >5 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >5 | 1 | | |
| Lead | ppm | ASTM D5185m | >5 | 1 | | |
| Copper | ppm | ASTM D5185m | >5 | 0 | | |
| Tin | ppm | ASTM D5185m | >5 | 0 | | |
| Vanadium | ppm | ASTM D5185m | | <1 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 44 | | |
| Barium | ppm | ASTM D5185m | | 0 | | |
| Molybdenum | ppm | ASTM D5185m | | 27 | | |
| Manganese | ppm | ASTM D5185m | | <1 | | |
| Magnesium | ppm | ASTM D5185m | | 134 | | |
| Calcium | ppm | ASTM D5185m | | 2249 | | |
| Phosphorus | ppm | ASTM D5185m | | 712 | | |
| Zinc | ppm | ASTM D5185m | | 790 | | |
| Sulfur | ppm | ASTM D5185m | | 3409 | | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | 6 | | |
| Sodium | ppm | ASTM D5185m | | 0 | | |
| Potassium | ppm | ASTM D5185m | >20 | 4 | | |
| Water | % | ASTM D6304 | | NEG | | |
| FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >5000 | 3183 | | |
| Particles >6µm | | ASTM D7647 | >1300 | 339 | | |
| Particles >14µm | | ASTM D7647 | >160 | 8 | | |
| Particles >21µm | | ASTM D7647 | >40 | 3 | | |
| Particles >38µm | | ASTM D7647 | >10 | 0 | | |
| Particles >71µm | | ASTM D7647 | >3 | 0 | | |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 19/16/10 | | |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 1.04 | | |



OIL ANALYSIS REPORT







| VISUAL White Metal | | | | | | |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| White Metal | | method | limit/base | current | history1 | history |
| www.inconvictar | scalar | *Visual | NONE | NONE | | |
| Yellow Metal | scalar | *Visual | NONE | NONE | | |
| Precipitate | scalar | *Visual | NONE | NONE | | |
| Silt | scalar | *Visual | NONE | NONE | | |
| Debris | scalar | *Visual | NONE | NONE | | |
| Sand/Dirt | scalar | *Visual | NONE | NONE | | |
| Appearance | scalar | *Visual | NORML | NORML | | |
| Odor | scalar | *Visual | NORML | NORML | | |
| Emulsified Water | scalar | *Visual | | NEG | | |
| Free Water | scalar | *Visual | | NEG | | |
| | | method | limit/base | current | history1 | history |
| | | | mmbdasc | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| SAMPLE IMAGE | S . | method | limit/base | current | history1 | history |
| Color | | | | | no image | no image |
| Bottom | | | | | no image | no image |
| GRAPHS | | | | | | |
| Ferrous Alloys | | | 401 520 | Particle Count | | |
| 8 iron | | | 451,520 | I | | |
| E 6 - herease chromium | | | 122,880 | - | | |
| | | | 30,720 | | | |
| 1 | | | 7.680 | Abaamal | | |
| 8/24 | | | 8/24 1 1 ml) | | | |
| May2 | | | 1,920 g lber | | • | |
| Non-ferrous Meta | ls | | - 480 | | | |
| ¹⁰ | | | 5 120 | | N | |
| | | | ag m | | | |
| 8 - copper | | | E aa | | | |
| E 6 4 copper lead | | | = 30 | | | |
| | | | 30 | ļ \ | | |
| | | | 8 | | | |
| | | | 8 | | | |
| ud 4 2 0 +7/82/keW | | | 8 | μ 6μ | 14μ 21μ | 38μ 7 |
| udd 2 0 bZ82/kW Viscosity @ 40°C | | | 8 670824 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 | بر قلم مراجع م Acid Number | 14µ 21µ | |
| Viscosity @ 40°C | | | 8 670824 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 | بر قلم مراجع م Acid Number | 14μ 21μ | 38μ 7 |
| Viscosity @ 40°C | | | 8 670824 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 | بر قلم مراجع م Acid Number | 14μ 21μ | |
| Viscosity @ 40°C | | | 8 670824 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 | بر قلم مراجع م Acid Number | 14μ 21μ | 38µ 71 |
| Viscosity @ 40°C | | | 8 670824 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 | بر قلم مراجع م Acid Number | 14μ 21μ | |
| Viscosity @ 40°C | | | 30 8 45/28/24 2 | بر قلم مراجع م Acid Number | 14μ 21μ | |
| | Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPERT Visc @ 40°C Visc @ 100°C Visc @ 100°C Viscosity Index (VI) SAMPLE IMAGES Color Bottom Ferrous Alloys | Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Free Water scalar Free Water scalar FLUID PROPERTIES Visc @ 40°C cSt Visc @ 100°C cSt Visc @ 100°C cSt Viscosity Index (VI) Scale SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys | Debris scalar *Visual Sand/Dirt scalar *Visual Appearance scalar *Visual Odor scalar *Visual Emulsified Water scalar *Visual Free Water scalar *Visual Free Water scalar *Visual FLUID PROPERTIES method Visc @ 40°C cSt ASTM D445 Visc @ 100°C cSt ASTM D445 Visc @ 100°C cSt ASTM D2270 SAMPLE IMAGES method Color GRAPHS Ferrous Alloys | Debris scalar *Visual NONE Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NORML Odor scalar *Visual NORML Odor scalar *Visual NORML Emulsified Water scalar *Visual NORML Free Water scalar *Visual NORML Free Water scalar *Visual NORML Visc @ 40°C cSt ASTM D445 Visc @ 100°C Visc @ 100°C cSt ASTM D445 Viscosity Index (VI) Scale Visc @ 100°C cSt ASTM D2270 SAMPLE IMAGES method Imit/base Color Sample Imit/base Imit/base Imit/base GRAPHS Imit/base Imit/base Imit/base Imit/base Imit in nickel Imit/base Imit/base Imit/base Imit/base Imit in the intermining in the i | Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NORML NORML Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual NORML NORML Free Water scalar *Visual NEG NEG FLUID PROPERTIES method limit/base current Visc @ 40°C cSt ASTM D445 8.85 Visc @ 100°C cSt ASTM D445 8.85 Visc @ 100°C cSt ASTM D2270 146 SAMPLE IMAGES method limit/base current Color Bottom 1 1 0 < | Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NORML NORML Free Water scalar *Visual NORML NEG Free Water scalar *Visual NEG Visc @ 40°C cSt ASTM D445 52.94 Visc @ 100°C cSt ASTM D445 8.85 Visc @ 100°C cSt ASTM D2270 146 SAMPLE IMAGES method limit/base current history1 Color Scale ASTM D2270 146 Bottom and |

To discuss this sample report, contact Custome * - 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)

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Certificate L2367

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