OIL ANALYSIS REPORT

GROFF JC VOLVO PENTA A510254 - PORT DIESEL ENGINE

Sample No: VPA021993

Oil Type: SHELL ROTELLA T 15W40

| Sample Data 14 Dec 2023 21 Jun 2022 Machine Hours 517 400 Oil Hours 67 18 Oil Changed Changed Not Changd Oil CONITION Visc @ 100°C CSt 114.1 13.8 Base Number (BN) mg KOH/g 8.6 10.1 CONTAMINATION Soot % % 0.2 0.1 Soot % % 0.2 0.1 Soot % % NEG NEG Soltation (PA) % 55 54 Soltation (PA) % 52 4 Soltation (PA) % 10 | Sample Number | | VPA021993 | VPA040675 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Machine Hours 517 400 Oil Hours 67 18 Sample Status NORMAL NOC Changed Sample Status NORMAL NORMAL OIL CONDITION Visc @ 100°C CSt 14.1 13.8 Data (PA) % 62 59 CONTAMINATION Water % NEG NEG Nitration (PA) % 48 45 Soot % % NEG NEG Silication (PA) % 48 45 Solf % % NEG NEG Silication (PA) % 48 45 Sodium ppm 5 </th <th></th> <th></th> <th></th> <th></th> <th> </th> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oil Hours 67 18 Oil Changed Not Changd Not Changd Sample Status NORMAL NORMAL NORMAL OIL CONDITION OIL CONDITION Visc @ 100°C C5t 14.1 13.8 Oxidation (PA) % 62 59 CONTAMINATION Water % NEG NEG Soot % % 0.2 0.1 Solutifation (PA) % 55 54 Solutifation (PA) % 10 Solutifation (PA) % 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Status NORMAL NORMAL NORMAL OIL CONDITION Base Number (BN) mg KOH/g 8.6 10.1 Coidation (PA) % 62 59 CONTAMINATION Water % NEG NEG Soot % % 0.2 0.1 Solifation (PA) % 55 54 Solifation (PA) % <1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Status NORMAL Normal <thn< td=""><td></td><td></td><td></td><td></td><td> </td></thn<> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OIL CONDITION Visc @ 100°C cSt 14.1 13.8 Base Number (BN) mg KOH/g 8.6 10.1 Oxidation (PA) % 62 59 CONTAMINATION % 0.2 0.1 Soot % % 0.2 0.1 Nitration (PA) % 48 45 Soot % % NEG NEG Sulfation (PA) % 48 45 Soldium (PA) % NEG NEG Soldium ppm <1.0 | - | | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Visc @ 100°C cSt 14.1 13.8 Base Number (BN) mg KOH/g 8.6 10.1 Oxidation (PA) % 62 59 COTTAMINATION Water % NEG NEG Soot % % 0.2 0.1 Soot % % 0.2 0.1 Soot % % 0.2 0.1 Sulfation (PA) % 48 45 Glycol % NEG NEG Solitation (PA) % <1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Base Number (BN) mg KOH/g 8.6 10.1 CNIdation (PA) % 62 59 CONTAMINATION Water % NEG NEG Soot % % 0.2 0.1 Soot % % 0.2 0.1 Soot % % 0.2 0.1 Soot % % 48 45 Sulfation (PA) % 48 45 Sulfation (PA) % S5 5.4 Sodium ppm 5 4 Sodium ppm 7 3 VEAR METALS Iron ppm 10 4 Read ppm | OIL CONDITION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oxidation (PA) % 62 59 CONTAMINATION Water % NEG NEG Solt % 0.2 0.1 Nitration (PA) % 48 45 Sulfation (PA) % S5 54 Sulfation (PA) % VEG NEG Sulfation (PA) % 48 45 Sulfation (PA) % YEG NEG Sulfation (PA) % YEG NEG Silicon ppm 5 4 Sodium ppm 7 3 VEAR METALS KeAR METALS KeAR METALS | Visc @ 100°C | cSt | 14.1 | 13.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CONTAMINATION Water % NEG NEG Soot % % 0.2 0.1 Soot % % 0.2 0.1 Silfation (PA) % 48 45 Sulfation (PA) % S5 54 Glycol % NEG NEG Solitation (PA) % <1.0 | Base Number (BN) | mg KOH/g | 8.6 | 10.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water % NEG NEG Soot % % 0.2 0.1 Nitration (PA) % 48 45 Sulfation (PA) % 55 54 Glycol % NEG NEG Fuel % <1.0 | Oxidation (PA) | % | 62 | 59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water % NEG NEG Soot % % 0.2 0.1 Nitration (PA) % 48 45 Sulfation (PA) % 55 54 Glycol % NEG NEG Sulfation (PA) % <1.0 | CONTAMINATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Soot % % 0.2 0.1 Nitration (PA) % 48 45 Sulfation (PA) % 55 54 Glycol % NEG NEG Sulfation (PA) % <1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nitration (PA) % 48 45 Sulfation (PA) % 55 54 Glycol % NEG NEG Fuel % <1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sulfation (PA) % 55 54 Glycol % NEG NEG Fuel % <1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Glycol % NEG NEG Fuel % <1.0 | () | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fuel % <1.0 <1.0 Silicon ppm 5 4 Sodium ppm <1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silicon ppm 5 4 Sodium ppm <1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sodium ppm <1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Potassium ppm 7 3 WEAR METALS Iron ppm 10 4 Copper ppm 3 2 Lead ppm <1 <1 Aluminum ppm <1 <1 Aluminum ppm <1 <1 Molybdenum ppm <1 <1 <1 Molybdenum ppm <1 <1 <1 Manganese ppm <1 <1 | | | _ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEAR METALS Iron ppm 10 4 Copper ppm 3 2 Lead ppm <1 | | | | | | Iron ppm 10 4 Copper ppm 3 2 Lead ppm <1 | Fotassium | ppm | | 3 | | Copper ppm 3 2 Lead ppm <1 | WEAR METALS | | | | | Copper ppm 3 2 Lead ppm <1 | Iron | ppm | 1 0 | 4 | | Tin ppm <1 | Copper | ppm | 3 | 2 | | Aluminum ppm 2 <1 | | ppm | <1 | <1 | | Chromium ppm <1 | Tin | ppm | <1 | <1 | | Molybdenum ppm 13 41 Nickel ppm <1 | Aluminum | ppm | 2 | <1 | | Nickel ppm <1 <1 Titanium ppm <1 | Chromium | ppm | <1 | <1 | | Titanium ppm <1 | Molybdenum | ppm | | 41 | | Silver ppm 0 <1 Manganese ppm <1 | Nickel | ppm | ■<1 | | | Manganese ppm <1 Vanadium ppm <1 | Titanium | ppm | <1 | 0 | | Vanadium ppm <1 0 ADDITIVES Calcium ppm 1942 1390 Magnesium ppm 215 694 Zinc ppm 1256 1251 Phosphorus ppm 1026 985 Barium ppm 0 0 | Silver | ppm | 0 | <1 | | ADDITIVES Calcium ppm 1942 1390 Magnesium ppm 215 694 Zinc ppm 1256 1251 Phosphorus ppm 1026 985 Barium ppm 0 0 | | ppm | ■ <1 | <1 | | Calcium ppm 1942 1390 Magnesium ppm 215 694 Zinc ppm 1256 1251 Phosphorus ppm 1026 985 Barium ppm 0 | Vanadium | ppm | <1 | 0 | | Calcium ppm 1942 1390 Magnesium ppm 215 694 Zinc ppm 1256 1251 Phosphorus ppm 1026 985 Barium ppm 0 0 | | | | | | Magnesium ppm 215 694 Zinc ppm 1256 1251 Phosphorus ppm 1026 985 Barium ppm 0 | | | -1042 | — 1202 | | Zinc ppm 1256 1251 Phosphorus ppm 1026 985 Barium ppm 0 | | | | | | Phosphorus ppm 1026 985 Barium ppm 0 0 | | | | | | Barium ppm 0 0 | | | | | | | | | | | | BOIOD DDM | | | | | |
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| Iron ppm 10 4 Copper ppm 3 2 Lead ppm <1 | Fotassium | ppm | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Copper ppm 3 2 Lead ppm <1 | WEAR METALS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Copper ppm 3 2 Lead ppm <1 | Iron | ppm | 1 0 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tin ppm <1 | Copper | ppm | 3 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aluminum ppm 2 <1 | | ppm | <1 | <1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chromium ppm <1 | Tin | ppm | <1 | <1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Molybdenum ppm 13 41 Nickel ppm <1 | Aluminum | ppm | 2 | <1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nickel ppm <1 <1 Titanium ppm <1 | Chromium | ppm | <1 | <1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Titanium ppm <1 | Molybdenum | ppm | | 41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver ppm 0 <1 Manganese ppm <1 | Nickel | ppm | ■<1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manganese ppm <1 Vanadium ppm <1 | Titanium | ppm | <1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vanadium ppm <1 0 ADDITIVES Calcium ppm 1942 1390 Magnesium ppm 215 694 Zinc ppm 1256 1251 Phosphorus ppm 1026 985 Barium ppm 0 0 | Silver | ppm | 0 | <1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ADDITIVES Calcium ppm 1942 1390 Magnesium ppm 215 694 Zinc ppm 1256 1251 Phosphorus ppm 1026 985 Barium ppm 0 0 | | ppm | ■ <1 | <1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Calcium ppm 1942 1390 Magnesium ppm 215 694 Zinc ppm 1256 1251 Phosphorus ppm 1026 985 Barium ppm 0 | Vanadium | ppm | <1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Calcium ppm 1942 1390 Magnesium ppm 215 694 Zinc ppm 1256 1251 Phosphorus ppm 1026 985 Barium ppm 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Magnesium ppm 215 694 Zinc ppm 1256 1251 Phosphorus ppm 1026 985 Barium ppm 0 | | | -1042 | — 1202 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Zinc ppm 1256 1251 Phosphorus ppm 1026 985 Barium ppm 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phosphorus ppm 1026 985 Barium ppm 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Barium ppm 0 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| BOIOD DDM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

VOLVO PENTA

Outstanding Marine

PO Box 274 GALENA, MD US 21635 Contact: Ronda Bolinger rlwb@verizon.net T: F:

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

 Depot:
 VP153685

 Unique No:
 10816282

 Signed:
 Don Baldridge

 Report Date:
 04 Jan 2024

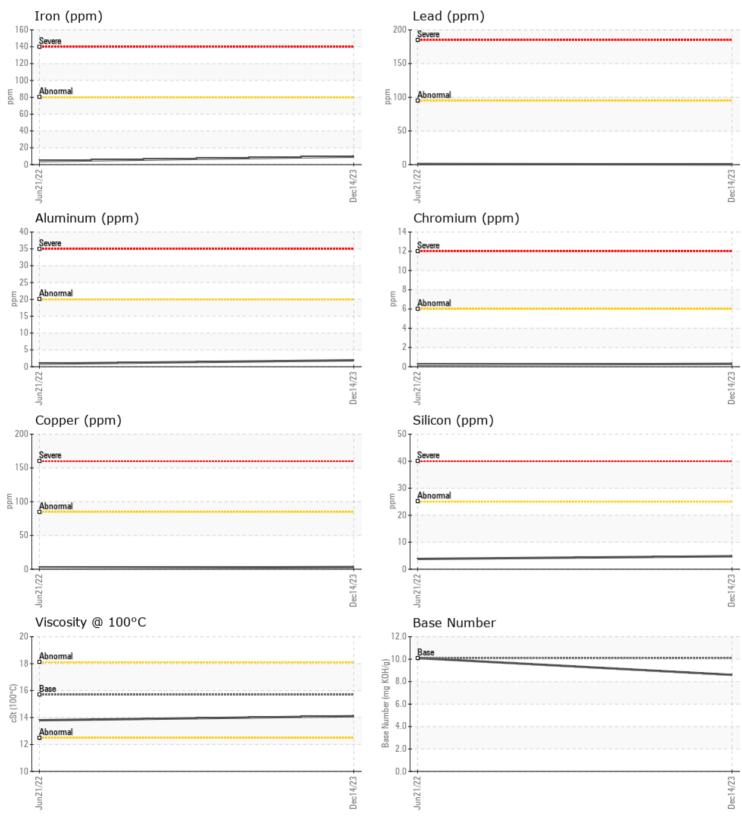
Report Id: VP153685 [WUSCAR] 06050333 (Generated: 01/04/2024 16:24:41) Rev: 1

Contact/Location: Ronda Bolinger - VP153685

OIL ANALYSIS REPORT



GRAPHS



Report Id: VP153685 [WUSCAR] 06050333 (Generated: 01/04/2024 16:24:43) Rev: 1

Contact/Location: Ronda Bolinger - VP153685